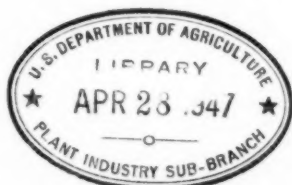


AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful



APRIL 15, 1947



Myrica Pensylvanica

SEEDS

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FLOWER — VEGETABLE

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Our Shrubs are well grown, bushy stock, grown on rich land and usually twice transplanted. We are sure they will please your most critical trade.

BUNDLE SPECIFICATIONS: 9 to 12-inch and 12 to 18-inch Shrubs are tied 25 per bundle, 18 to 24-inch and 2 to 3-foot Shrubs are 10 per bundle and 3 to 4-foot and 4 to 5-foot are 5 per bundle. We do not split bundles.

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PRICES SHOWN ARE PER 100.

ACANTHOPANAX sieboldianus

1100 18 to 24 inches	\$20.00
1000 2 to 3 feet	27.00
240 3 to 4 feet	40.00

BARBERRY, thunbergi

3500 9 to 12 inches	12.00
9100 12 to 15 inches	15.00
6700 15 to 18 inches	20.00
2800 18 to 24 inches	25.00
2200 2 to 2½ feet	30.00

BARBERRY, Truchedea Columnberry

1100 18 to 24 inches	45.00
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BUDDLEIA (Butterfly Bush)

Charming	
1500 Medium	22.00
1000 No. 1	28.00

Concord

100 Medium	22.00
400 No. 1	28.00

Dubnnet

1000 Medium	20.00
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Orchid Beauty

500 Medium	22.00
750 No. 1	28.00

CORNUS alba sibirica

500 12 to 18 inches	14.00
600 18 to 24 inches	22.00
400 2 to 3 feet	30.00
1200 3 to 4 feet	35.00

racemosa (Gray Dogwood)

190 2 to 3 feet	30.00
100 3 to 4 feet	40.00
180 4 to 5 feet	50.00

stolonifera (Red Osier Dogwood)

190 12 to 18 inches	14.00
900 18 to 24 inches	20.00
700 2 to 3 feet	25.00
800 3 to 4 feet	30.00

COTONEASTER divaricata

480 2 to 3 feet	60.00
250 3 to 4 feet	80.00

CYDONIA japonica

500 18 to 24 inches	22.00
2100 2 to 3 feet	25.00
2800 3 to 4 feet	30.00

DEUTZIA Pride of Rochester

250 12 to 18 inches	16.00
1200 18 to 24 inches	20.00
200 2 to 3 feet	30.00

EUONYMUS atropurpureus

100 2 to 3 feet	\$27.00
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European

250 2 to 3 feet	30.00
500 3 to 4 feet	40.00

yedoensis

100 18 to 24 inches	22.00
300 2 to 3 feet	30.00

FORSYTHIA intermedia

400 12 to 18 inches	16.00
1250 18 to 24 inches	25.00

intermedia spectabilis

750 12 to 18 inches	14.00
400 18 to 24 inches	25.00

suspensa

250 12 to 18 inches	16.00
200 18 to 24 inches	25.00
100 3 to 4 feet	45.00

HONEYSUCKLE bella albida

1000 2 to 3 feet	27.00
500 4 to 5 feet	45.00

grandiflora rosea

500 12 to 18 inches	12.00
1000 18 to 24 inches	20.00
500 2 to 3 feet	27.00

morrowi

70 18 to 24 inches	25.00
150 3 to 4 feet	35.00
230 4 to 5 feet	45.00

Pink Tatarian

400 12 to 18 inches	12.00
2200 18 to 24 inches	20.00
1800 2 to 3 feet	27.00

Red Tatarian

700 12 to 18 inches	12.00
4100 18 to 24 inches	20.00
1000 2 to 3 feet	27.00

LILAC rothomagensis (Chinese)

750 3 to 4 feet	45.00
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PHILADELPHUS lemoinei

1000 18 to 24 inches	25.00
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PRIVET, Amur River North

15,000 9 to 12 inches, branched	4.00
5000 12 to 18 inches, 2 canes	5.00
15,000 12 to 18 inches, 3 canes	6.00
8000 18 to 24 inches, 2 canes	6.00
9000 18 to 24 inches, 3 canes	8.00

and up

California	
6000 12 to 18 inches, 2 canes	4.00
3000 12 to 18 inches, 3 canes	5.00
and up	5.00
4000 18 to 24 inches, 3 canes	6.50
and up	6.50

VINES

AMPELOPSIS (Boston Ivy)

5100 2-year, Medium	\$22.00
4500 2-year, No. 1	27.00
1600 3-year, No. 1	40.00

HONEYSUCKLE, Hall's Japanese

500 2-year, Medium	12.00
6000 2-year, No. 1	15.00
2000 3-year, No. 1	18.00

POLYGONUM auberti

1100 2-year, Medium	25.00
2600 2-year, No. 1	30.00

PRIVET—Cont.

Itholum

4000 12 to 18 inches, 3 canes	
and up	86.00
1500 2 to 3 feet, 2 and 3 canes	7.50

Regel

750 12 to 18 inches	12.00
500 18 to 24 inches	22.00
1000 2 to 2½ feet	28.00
800 2½ to 3 feet	32.00

RHUS canadensis

750 18 to 24 inches	22.00
580 2 to 3 feet	27.00
140 3 to 4 feet	40.00
170 4 to 5 feet	45.00

SPIRAEA freebeli

1600 18 to 24 inches	22.00
150 2 to 2½ feet	30.00

vanhouttei

7500 12 to 18 inches	12.00
7600 18 to 24 inches	16.00
12,000 2 to 3 feet	22.00
1000 3 to 4 feet	35.00

SYMPHORICARPOS vulgaris (Coralberry)

2650 18 to 24 inches	16.00
1700 2 to 3 feet	22.00
400 3 to 4 feet	30.00

TAMARIX

12 to 18 inches	16.00
18 to 24 inches	22.00
2 to 3 feet	30.00
3 to 4 feet	40.00
4 to 5 feet	50.00

Silver Foliage Varieties

3 to 4 ft.	2 to 3 ft.	18 to 24 ins.	12 to 18 ins.
Amurensis	50	...	90
Hispidula	200	300	400
Odessana	200	250	300

Green Foliage Varieties

3 to 4 ft.	2 to 3 ft.	18 to 24 ins.	12 to 18 ins.
Africana	550	350	550
Gallica	...	...	...
Indica	90	90	240
Tetrandra	100	400	600
Purpurea	100	400	600

RUGOSA ROSES

BELLE POITEVINE

600 18 to 24 inches	\$40.00
500 12 to 18 inches	30.00
400 9 to 12 inches	22.00

F. J. GROOTENDORST

700 2 to 3 feet	60.00
2000 18 to 24 inches	50.00
3100 12 to 18 inches	40.00
800 9 to 12 inches	30.00



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"One of America's Foremost Nurseries"

MOUNT ARBOR NURSERIES
SHENANDOAH, IOWA

AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

VOL. LXXXV, No. 8

APRIL 15, 1947

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CLOSING DATE—Copy for the May 1 issue must reach this office by April 21.

SURPLUS LIST

All orders shipped within twenty-four hours after receipt. Stock listed is now in storage and ready for immediate shipment. Prices quoted are F.O.B. Manchester, Connecticut; boxing or crating extra. Please advise method and time shipment desired.

SHRUBS, 2-YR. FIELD-GROWN

	Per 10	Per 100
3 to 4 ft.....	\$3.50	\$32.50
2 to 3 ft.....	3.00	27.50
18 to 24 ins.....	2.50	22.50
900 Buddleia Magnifica, No. 1		
1300 Cornus Alba Sibirica, 2 to 3 ft.		
120 Cornus Alba Sibirica, 18 to 24 ins.		
1100 Cornus Stolonifera, 3 to 4 ft.		
2540 Cornus Stolonifera, 2 to 3 ft.		
3400 Cydonia Japonica, 18 to 24 ins.		
840 Deutzia Crenata Rosea, 18 to 24 ins.		
400 Deutzia Pride of Rochester, 3 to 4 ft.		
2200 Deutzia Pride of Rochester, 2 to 3 ft.		
1600 Deutzia Pride of Rochester, 18 to 24 ins.		
1100 Forsythia Intermedia, 3 to 4 ft.		
1200 Forsythia Intermedia, 2 to 3 ft.		
5000 Forsythia Intermedia Spectabilis, 18 to 24 ins.		
100 Forsythia Primulina, 3 to 4 ft.		
300 Forsythia Primulina, 2 to 3 ft.		
300 Forsythia Suspensa, 2 to 3 ft.		
1300 Forsythia Suspensa, 18 to 24 ins.		
600 Forsythia Suspensa Fortunei, 3 to 4 ft.		
4900 Forsythia Suspensa Fortunei, 2 to 3 ft.		
2300 Forsythia Suspensa Fortunei, 18 to 24 ins.		
3000 Hibiscus Boule de Feu, 3 to 4 ft.		
500 Hibiscus Rubis, 3 to 4 ft.		
260 Lonicera Tat. Alba, 2 to 3 ft.		
600 Lonicera Tat. Alba, 18 to 24 ins.		
1400 Philadelphus Coronarius, 3 to 4 ft.		
400 Philadelphus Coronarius, 2 to 3 ft.		
1300 Philadelphus Virginialis, 2 to 3 ft.		
700 Philadelphus Virginialis, 18 to 24 ins.		
580 Spiraea Arguta, 18 to 24 ins.		
270 Spiraea Thunbergi, 2 to 3 ft.		
2000 Spiraea Vanhouttei, 2 to 3 ft.		
900 Symphoricarpos Chenaulti, 2 to 3 ft.		
230 Symphoricarpos Racemosus, 2 to 3 ft.		
1400 Symphoricarpos Vulgaris, 2 to 3 ft.		
3200 Symphoricarpos Vulgaris, 18 to 24 ins.		
440 Tamarix Africana, 2 to 3 ft.		
890 Tamarix Amurensis, 3 to 4 ft.		
1800 Tamarix Amurensis, 2 to 3 ft.		
390 Tamarix Amurensis, 18 to 24 ins.		
540 Tamarix Gallica, 3 to 4 ft.		
800 Tamarix Gallica, 2 to 3 ft.		
400 Tamarix Hispidia, 3 to 4 ft.		
750 Tamarix Hispidia, 2 to 3 ft.		
350 Tamarix Purpurea, 3 to 4 ft.		
1100 Tamarix Purpurea, 2 to 3 ft.		
500 Tamarix Purpurea, 18 to 24 ins.		

HEDGE PLANTS

	Per 100	Per 1000
20,000 Berberis Thunbergi, 2-yr. N.T., 9 to 12 ins....	\$ 6.00	\$ 50.00
1800 Berberis Thunbergi, 2-yr. Trans., 2 to 2½ ft.	35.00	325.00
18,000 Ligustrum Amurense, 3 to 4 ft.....	15.00	140.00
24,000 Ligustrum Amurense, 2 to 3 ft.....	11.00	100.00
1400 Ligustrum Ibolium, 3 to 4 ft.....	14.00	130.00
230 Ligustrum Iboia Regelianum, 3 to 4 ft.....	40.00	.....
750 Ligustrum Iboia Regelianum, 2 to 3 ft.....	25.00	200.00

ROSES

	Per 10	Per 100
1100 General Jacqueminot, H. P., No. 1.....	\$5.00	\$45.00
2900 Grootendorst Supreme Rugosa, No. 1.....	5.00	45.00
1900 Royal Scarlet Climber, No. 1.....	5.00	45.00
500 Silver Moon Climber, No. 1.....	5.00	45.00

ORNAMENTAL TREES IN STORAGE

	Per 10	Per 100
200 Hydrangea P. G., Tree Form, 2 to 3 ft....	\$ 5.00	\$45.00
100 Malus Eleyi, 3 to 4 ft.....	5.00	45.00
130 Malus Red Silver, 4 to 5 ft.....	10.00	90.00
230 Populus Nigra Italica (Lombardy Poplar), 8 to 10 ft.....	5.00	45.00
970 Populus Nigra Italica (Lombardy Poplar), 6 to 8 ft.....	4.00	35.00

VINES

	Per 100	Per 1000
9000 Ampelopsis Veitchi, 2-yr., 18 to 24 ins....	\$20.00	\$175.00
14,000 Ampelopsis Veitchi, 2-yr., 15 to 18 ins....	15.00	125.00
20,000 Ampelopsis Veitchi, 2-yr., 12 to 15 ins....	10.00	85.00
500 Celastrus Scandens, 2-yr., No. 1.....	25.00	225.00
900 Celastrus Scandens, 2-yr., No. 2.....	15.00	125.00
600 Lonicera Sempervirens, 2-yr., No. 1.....	25.00	225.00
400 Lonicera Sempervirens, 2-yr., No. 2.....	20.00	175.00
600 Lonicera Jap. Halliana, 2-yr., No. 1.....	12.00	100.00

LINING-OUT STOCK SHRUBS

	Per 100	Per 1000
12 to 18 ins.....	\$12.50	\$100.00
9 to 12 ins.....	10.00	90.00
300 Cornus Stolonifera, 12 to 18 ins.		
4700 Cydonia Japonica, 12 to 18 ins.		
1900 Cydonia Japonica, 9 to 12 ins.		
700 Deutzia Crenata, 12 to 18 ins.		
1900 Deutzia Pride of Rochester, 12 to 18 ins.		
4000 Forsythia Spectabilis, 12 to 18 ins.		
500 Forsythia Suspensa, 12 to 18 ins.		
800 Forsythia Fortunei, 12 to 18 ins.		
700 Forsythia Viridissima, 12 to 18 ins.		
500 Hamamelis Virginiana, 12 to 18 ins.		
100 Hamamelis Virginiana, 9 to 12 ins.		
500 Spiraea Froebelii, 9 to 12 ins.		
2800 Spiraea Vanhouttei, 12 to 18 ins.		
1400 Symphoricarpos Vulgaris, 12 to 18 ins.		
500 Tamarix Amurensis, 12 to 18 ins.		
200 Viburnum Dentatum, 12 to 18 ins.		
130 Viburnum Dentatum, 9 to 12 ins.		
900 Weigela Rosea, 12 to 18 ins.		

LINING-OUT STOCK HEDGE AND VINES

	Per 100	Per 1000
70,000 Berberis Thunbergi, 2-yr. sdgls., 6 to 9 ins....	\$4.00	\$35.00
4000 Berberis Thunbergi Atropurpurea, 1-yr., 3 to 6 ins.....	5.00	45.00
24,000 Ampelopsis Veitchi, 1-yr. sdgls., 12 to 15 ins.	2.00	17.50
25,000 Ampelopsis Veitchi, 1-yr. sdgls., 9 to 12 ins....	1.50	12.50
60,000 Ampelopsis Veitchi, 1-yr. sdgls., 6 to 9 ins....	1.00	8.50
3000 Bignonia Radicans, 1-yr. sdgls.....	1.50	12.50
3000 Celastrus Scandens, 1-yr. sdgls.....	1.50	12.50
	Per 1000	
40,000 Rosa Multiflora Japonica Cuttings, 6 to 8 mm.....	\$20.00	
25,000 Rosa Multiflora Japonica Cuttings, 4 to 6 mm.....	15.00	
30,000 Myrobalan Plum Seedlings, ¼-in.....	30.00	
25,000 Myrobalan Plum Seedlings, 3/16 in.....	25.00	
12,000 Myrobalan Plum Seedlings, 2/16 in.....	20.00	
100,000 Washington Asparagus, 2-yr., No. 1.....	12.50	
100,000 Paradise Asparagus, 1-yr., No. 1.....	10.00	

C. R. BURR & COMPANY, Inc.

Manchester, Connecticut

"Growing Since '98"

AMERICAN NURSERYMAN

F. R. KILNER, Editor

Editorial

COVER ILLUSTRATIONS.

For a number of years the cover of the American Nurseryman has carried a picture of a different tree or shrub each issue. These have been plants desirable for landscape use, and the pictures have shown mature specimens, often in flower or fruit, to familiarize readers with the appearance of the plant full grown in garden surroundings.

These cover pictures have been of trees and shrubs of important use in landscape plantings or better varieties recommended for that purpose. Besides being chosen for the plants shown, they have been selected for their artistic merit so far as possible.

Most of the photographs reproduced have come from the extensive McFarland collection of horticultural subjects, though a few have come from other sources. Yet there are a considerable number of trees and shrubs for which there have not so far been obtainable photographs that meet the requirements of our cover illustrations—a mature landscape specimen, preferably in flower or fruit, of sufficient artistic merit to form an attractive picture.

Among photographs sought are those of varieties of taxus, juniper, etc., that have come into prominence recently, as well as fastigate deciduous trees, newer shrubs and the like.

Perhaps you have a photograph or two of specimens you are fond of which would make good cover illustrations. Or maybe you know a photographer who likes to take such pictures. Write the editor to tell of the former or to give the name and address of the latter. We are glad to pay for the photographs we use.

Since few readers are likely to have a complete file or list of the many subjects already used on our covers, you may not know whether or not to submit photographs you have. So we suggest when you write the editor, you give the names of the plants, and a prompt reply will be sent as to the photographs to forward.

For subscribers' benefit, it is desired to continue presenting a different plant on the cover each issue so long as photographs can be obtained. With readers' help, this should be a long time to come, though several hundred have appeared already. Will you be one of our readers to help in this?

The Mirror of the Trade

PROPAGATION PLANS.

The demand for finished nursery stock continues strong for most ornamental items, though spotty in character, but in lining-out stock almost anything offered is snapped up without reference to price. The obvious conclusion is that many in the trade are still seeking to replant fields depleted in recent years or are building up supplies against an anticipated demand one or more seasons ahead.

When one measures the inadequate amount of propagation and planting done during the war years against the unprecedented mail-order demand for stock in that period, there seems good reason for the widespread attempt to replenish the salable supply.

How much planting will be required, the country over, to make up for the recent underproduction and to meet the increased needs for plantings about new and old homes in the seasons ahead, is something no man can tell. Even if a nation-wide report of stock on hand or in making were available, we should still have to guess at that elusive and intangible estimate of future demand.

Yet while we as an industry wish to produce adequately to meet our market's requirements, at the same time on one wishes to face the disastrous effects of overproduction, a few years hence, in cut prices, brush piles and overgrown nursery rows.

While the industry as a whole cannot plan production or attempt to gauge demand, each grower of nursery stock can arrive at some estimate of the stock he can hope to sell. He knows his normal outlets and can make some guess as to additional demand that is likely. Let him consider the likely demand, not a dream demand based on lack of competition or on present short supplies. Remember that others are increasing their supplies as you do yours.

Established firms of years' standing have old sales records on which to base estimates. They must take into account what new competition has come up in their territory, in growing and in selling. They must think of their customers, old and new, as static or progressive. Communities and states will vary widely.

New concerns may lack records of other years, but they should recognize the limitations on their growth, by reason of personnel available, territory to be developed and competition on hand. The sky may be the

limit in a poker game, but even there it is never even approached—and in a virgin field, if there be one, human resources can stretch only so far.

Hence, if each grower of nursery stock will consciously plan his production, seriously and deliberately, in accordance with his actual market prospects, this industry will have enough stock to meet the heavy demand ahead—and we subscribe to the statement that the surface has only been scratched yet in the horticultural field. At the same time, we shall be spared the heavy financial losses that follow overproduction, based in the past on roseate dreams of an unending and limitless demand at fancy prices.

Set your production plans high if your situation warrants, but be sure they are based on facts—studied and collected facts—not guesswork or fond hopes.

WARTIME CURBS EXPIRE.

Most of the remaining wartime controls went out of the window at midnight March 31. The Solid Fuels Administration ceased activities. Emergency controls over trucking and shipping lines ended. The draft act expired. All but a small segment of the second war powers act came to a close.

Only on sugar and a handful of scarce commodities has the government still power to set priorities or regulate the use. Congressional action is extending until June 30 allocation powers over railroad freight cars, Manila and agave cordage and fibers, some metals and some drugs. Control of lumber and plywood products is discontinued.

CHARLES S. ZIMMERMAN, president of I. W. Scott Co., Pittsburgh, Pa., is marking the fortieth anniversary of his association with the seed firm this year. Originally employed as a part-time clerk by Robert Stewart, he succeeded Mr. Stewart as president in 1929.

17-YEAR-OLD Keith T. Jones, 98 Marne street, Palmerston North, New Zealand, employed at Harrisons Nursery, Palmerston North, and taking a part-time course at the Massey Agricultural College, is interested in corresponding with nurserymen in this country who would be willing to exchange ideas, catalogs and possibly plants.

Development of New Plants for Nursery Use Through Hybridization

By S. L. Emsweller

For some years the writer has been thinking of the wonderful potentialities awaiting exploitation in breeding new varieties of plants for the nurseryman and has been hoping eventually to have the opportunity of organizing such a program. Until recently the development of new ornamental shrubs and trees has not received much attention in this country. Each year new varieties developed in other countries are imported for propagation and sale. Great strides have been made in the United States in developing new perennials, such as roses, day lilies, phloxes and chrysanthemums. All these plants are relatively easy to grow from seeds and require little space, and the time from seed sowing to evaluation of seedlings is not excessive.

Most of the new shrubs and trees of American origin have been chance sports that appeared in someone's nursery. Few are the result of a planned breeding program involving the growing of seedlings. This is readily understood when one considers the great amount of time and money required adequately to handle such a large-scale breeding program. For instance, it may be necessary to grow 5,000 or 10,000 seedlings in order to secure one that is more valuable than those now available. Few nurserymen have the time or care to take the financial risks involved. This is unfortunate, since the nurseryman, because of his day-by-day handling of plant materials, is well qualified to evaluate new seedlings. He also knows what is lacking among certain species and is able to draw up what might be called specifications of plant types that would be desirable.

The methods that have been used to develop new shrubs may be placed into two categories: Those controlled by man and those over which he has had no control whatever. So far, man's control has usually been limited to the collection and planting of as many seeds as he thought he could take care of. This method, of course, has been refined by some breeders

who have used seeds only from selected plants. Others have done some crossbreeding, carefully selecting the parents with the objective of combining the good qualities of both. These methods have produced results, but they can be tremendously improved by utilizing all that modern science has to offer.

The chance mutations, or sports, that suddenly appear have been responsible for some of the finest of our ornamental shrubs and trees. Here we are only innocent bystand-



Samuel L. Emsweller.

ers, as nature spontaneously does what man would like to be able to do himself. About the only credit due an introducer of a sport is recognition of his ability to distinguish and propagate a good new variety when nature presents it to him.

Unfortunately, many people have not taken the time to learn how the techniques of modern genetics and other branches of science have made possible a greatly increased efficiency in plant breeding. This is partly because of the technical language in which results of research are usually written. Also, there is no single, widely read journal or magazine where such results could be published in everyday language.

The real start of modern plant breeding occurred more than eighty years ago, and yet many people are still unaware of the practical importance of the fundamental laws of inheritance. Because of this many hy-

brid plants are probably discarded each year because they do not show the characters or qualities for which the hybridizer had hoped. Instead of being discarded, they should have been carried onto other generations. Let me give a concrete example. When red-flowered forms of azaleas are cross-pollinated with white-flowered ones, the hybrids may all have red flowers. If the objective is to obtain improved white azaleas, such results would be disappointing. We should know, however, that these hybrids contained the factor or factors for white flowers, although their appearance did not indicate this. Somehow or other the white color was inhibited from expressing itself. It was what we call a recessive character, and red was a dominant. These two terms, dominant and recessive, are based on the knowledge that all inherited characteristics in plants and animals are controlled by hereditary units that are called genes. Sometimes a plant character is controlled by a single hereditary unit or gene; often the character is the result of interaction between several or numerous genes. Suppose the red color of the azalea flower is controlled by one hereditary unit or gene. The white color of the other azalea might also be caused by the presence of a single gene for white flowers. Since the hybrids can contain both kinds of genes and yet they bear only red flowers, we could say that red is dominant over white. Suppose the red flower was also a double (hose-in-hose) type and the white a single. How could we secure a white double? There are two methods by which this can be done. We may self-pollinate the hybrids or cross them back to the white parent. If they are self-pollinated, the resulting seedlings should be of two types in respect to flower color. About seventy-five per cent should have red flowers and twenty-five per cent should have white flowers. It is quite likely that some of the white-flowered plants would have double flowers and some of the red plants would have single flowers. We should have recombinations of the two characters, white now with double flowers and red with single. Since we had set out to produce a double-flowered white

S. L. Emsweller is principal horticulturist, division of fruit and vegetable crops and diseases, bureau of plant industry, soils and engineering, agricultural research administration, United States Department of Agriculture, Beltsville, Md.

azalea we should have accomplished our objective. If we had backcrossed the hybrid to the recessive white parent, we should have secured seedlings about fifty per cent red-flowered and fifty per cent white-flowered, thus producing twice as many whites from which selections might be made.

Such results show that the hereditary units are not modified or changed when they are in a hybrid. They can be retrieved by growing another generation or by backcrossing to the recessive parent. Many of the varieties and species of plants now listed in nursery catalogs are probably hybrids. They may contain untold valuable characters lying dormant, merely awaiting a chance to express themselves. The only way to bring out all the possibilities of a species is to self-pollinate it and uncover the recessive genes hidden within it.

There are many degrees of hybridity. Some varieties or species show little variation in their seedlings. Such types may be cross-pollinated with one another, and either by self-pollination of the hybrid or by backcrossing it to each parent we secure recombinations of the characters present. Frequently, some of the recombinations are far superior to the parents. Suppose, for instance, a plant is resistant to a certain leaf spot disease. Perhaps it is so inferior in every other respect that it would be most undesirable. If it is cross-pollinated with a type that is desirable, except for susceptibility to the leaf spot, we should be able to obtain eventually a resistant plant of good quality. Here is the procedure to be followed: If the hybrid is susceptible, we know immediately that the gene or genes for resistance are recessive to those for susceptibility. If the hybrid is a plant of good quality, we should then backcross it to the resistant parent. Among these backcross plants may be some combining good appearance with resistance. If the hybrid is considerably inferior to the better parent, it is probably advis-

able to self-pollinate it or to backcross it to the better parent. From one of these procedures a plant eventually should be secured combining resistance and quality. The chances of securing such results will be improved as the total number of seedlings grown is increased.

As a rule, plant breeding is concerned with large numbers of genes rather than a few. It is probable that most plants have thousands of genes that control their various characteristics. It is also known that some plant characters are the result of the interaction of many genes, each one contributing something to the final result. Thus a flower may be single or double, red or white or some other color, and one of a number of shapes. It may also be very large or very small. The petals may be spotted or plain, ruffled or smooth. We see then that what a flower looks like usually depends on a large number of genes. In addition to this we know that some plant characters depend on the presence of two or more genes in the plant.

Sometimes a gene that controls a character in one way when it is present alone cooperates or interacts with another gene, when the latter is present, to produce a distinctly different effect. Such behavior of two genes is called a complementary action. When alone, they produce one effect; when together, they complement one another and give rise to an entirely different character. Some unusual results can be expected from complementary gene action.

The genes are transmitted from one generation to another by means of chromosomes. These interesting bodies are found in all living cells of both plants and animals. They are much like a string of beads, the beads being the genes that control a plant's characters. The number of chromosomes in a plant is normally the same in practically all cells of all plants of a particular species or variety. Thus all Easter lilies have twenty-four chromosomes and most

rhododendrons have twenty-six. Just how is this number maintained the same from one generation to the next? For instance, if two rhododendrons are crossed, will the hybrid have twenty-six plus twenty-six, or fifty-two chromosomes? Crosses of this sort have been made and the hy-

[Continued on page 56.]

COLONIAL SALESYARD.

Like a miniature colonial home surrounded by a broad Natchez porch, the new headquarters of the Mancill Allen Nursery & Garden Clinic, at 1930 West Gray, Houston, Tex., are at home on the thoroughfare leading from the downtown area to two of the finest residential sections of Houston. External signs of the trade are subdued, being a neon sign at one side and a conservatory behind the porch on the other side. Floodlights for nighttime display purposes are hidden by the shrubbery beds at either side.

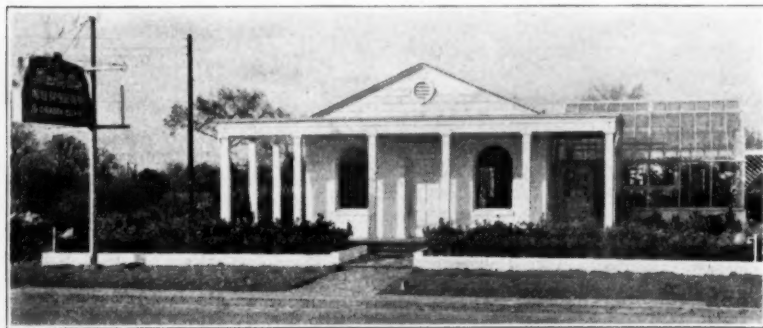
In the office building are a reception room and a private office, connected by a hallway in which are located the secretary's desk and a complete soils laboratory. The colonial theme of the setting is supported by the reception room, which is furnished in Victorian style, featuring an old-fashioned lap desk on a table underneath a mirror trimmed in gold leaf.

Adjoining the building on the rear is a Metropolitan greenhouse, which can be entered through double glass doors from the reception room or from one side of the porch. To one side of the building is the conservatory, known as the Jewel Box, which is used mainly for display and can be entered from the east side of the porch or from the large greenhouse. Connecting concrete walks run between all of the display bins and lead into a red cedar lath house constructed of pipe set in concrete and redwood.

Mr. Allen reports that he finds work more pleasant and convenient in the new quarters, compared to the conditions in the temporary building which the firm had occupied on a month-to-month rental basis since 1938.

J. ROSS WEAVER has taken over the nursery interests at Johnstown, Pa., of his father-in-law, the late H. L. Beatty.

FOLAND NURSERY, R. R. 2, Elwood, Ind., is the new name and address of the firm owned by Merrill Foland.



Office Building of Retail Nursery Firm at Houston, Tex.

New Laborsaving Devices

By Stephen Hoyt

There have been many changes in the nursery business in the past years. The cost of labor went from \$1.50 per day to \$1.50 per hour. We had the depression; then the New Deal, and we did not know whether to plant a row or plow it under, and then the war. The demand for stock was more or less upset. Everything has changed. So the nurseryman will have to change somewhat to labor-saving devices if he wishes to survive.

You have heard the old sayings about keeping one's nose to the grindstone and about having an ax to grind. When I was a boy our nursery was part farm and part nursery, and there was always work for a boy to do: The grindstone to turn, an ax to grind; the butter churn to turn; that woodpile and bucksaw; the icebox to be filled. Later, there were manure and fertilizers to be spread by hand; a single plow to follow, and so forth. But the gasoline engine and electric motor have changed all that. Now labor does not really do the work; it just presses the button. All types of work have been made easier and are being done more quickly. Now we go to the icebox and the ice is there; press a button and the grindstone turns; press a button and the furnace is going; press a button and the wood is cut. And as for office work, typing, computing and other things are all done by pressing a button.

The nursery industry is interested in push buttons, or laborsaving devices. By using attachments on machinery we already have, and by using newer machines, we are replacing hand labor. Farm tractors have been a great help in such work as preparing our soil by working the ground faster, plowing more furrows at one time. Tractors save time in cultivating the soil around our trees and eliminate the necessity of a man's trailing behind the cultivator, enabling one man to cover many more acres of ground in a day than before.

Manufacturers of farm implements and tractors have made great progress in making machinery and attachments for the growing of farm and vegetable crops. The nurseryman benefits from farm machinery improvements in many ways, but the

growing of nursery stock does not always fit in with the growing of farm and vegetable crops. Nursery stock up to two and one-half feet high can be cared for at present with available machinery. Stock three feet and up to five feet high, planted in rows four feet apart or less, cannot be cared for by the present-day tractors, except by small 2-wheel garden tractors or horse-drawn cultivators with a man trailing, and this is not a push-button job. The nurseryman with small acreage can get by with a small garden tractor, but those with large acreages, where cultivating is an 8-hour job, for every day of each week, of each month, other machinery is needed. If the manufacturers could make other models, or remodel one of their present machines, to allow a clearance of three to four feet, it would help to eliminate the old methods and insure coverage of more acreage in a much shorter time.

Larger stock planted in 4 or 5-foot rows, which cannot be straddled, could be cultivated with a small tractor, designed with about a 30-inch outside width, having three or four wheels with cultivator attachment and power lift. However, the demand for such a machine would not warrant a profit to the manufacturer; so for the present we shall have to cultivate such stock the old way. We started putting a push button on a miniature tractor cultivator for just such work, but as yet have not been able to procure the necessary parts. Where stock is planted in rows five and one-half feet and more apart, the small tractors presently manufactured can cultivate between the rows.

Another push-button type of machine in which the nurserymen are interested is a root-pruner or digger, such as fruit growers use. This has been a horse-drawn affair whose operation is not so hard a job if soil conditions are good and soil is free from stones and stock is not too large. Some nurseries are experimenting to improve on the device.

Nursery stock two to three feet high can be root-pruned by modern wheel tractors, and the stock can then stand for another two to three years and can grow to a height of four to five feet with good root systems. However, when stock reaches the height of five to six feet, it can no longer be cultivated or root-

pruned by modern wheel tractors, because of the minimum of clearance.

At our nursery we desired a root-pruner for larger, heavier stock, one with at least a 5 to 6-foot clearance, without axles and able to straddle stock planted in a 4-foot row. This machine was to have a 24 to 28-inch U-shaped digger, which would reach to a depth of fifteen inches, and a power lift. Before the war we decided to build one, and as it was an experiment we used some truck parts, together with some new parts, and our root-pruner turned out quite satisfactorily. If there were a large enough demand for such a machine, and the tractor engineers could build one along the lines of ours, improving on it a bit, it would take care of most nursery stock up to six feet high and even that seven to eight feet high in some instances. The machine with two men replaces three teams and seven men and does the work many times faster. The machine root-prunes at a speed of one and one-half to three miles per hour.

Ornamental trees spaced for a 10 to 12-foot tree and up to two inches in caliper, if not sold at the proper time or if not cut or thinned out, will lose their head shapes. There is no way of straddling trees of this size. In order that digging be made easy, the trees must be root-pruned by a horse-drawn digger. This is hard work and not usually done, or some other method is used. Here is where we should like to save labor and time and push another button. We should like to be able to dig a tree with a ball, burlap it and tie it up, by machinery. The cotton picker did not pick all the cotton the first time, but now this machine is picking well over seventy-five per cent of the cotton, and labor is holding the bag. If cotton can be picked by machinery, why not dig a tree by machinery?

We thought we would experiment and see if we could dig a tree by machinery, using what machinery we had in the way of power and adding attachments. We took a D-4 Caterpillar tractor with bulldozer, put on an attachment of a frame and a 36-inch tree digger with two shoes, one on each side of the digger to regulate the depth it went into the ground. The frame was bolted to the bulldozer blade. The shovel dropped about fifteen inches below the blade and was placed from two to two and

[Continued on page 61.]

Address by Stephen Hoyt, president of the Stephen Hoyt's Sons Co., New Canaan, Conn., at the convention of the New England Nurserymen's Association, February 4 to 6, at the Hotel Statler, Boston, Mass.

Awards to Nurseries at Spring Shows

The month of March brought spring flower and garden shows to eight of the principal metropolitan centers of the country, with shows being resumed at Chicago, Philadelphia, St. Louis and Kansas City for the first time since the war and with Boston, New York, Detroit and Cleveland holding their second post-war exhibitions.

The increased support of both the public and the trade was evidenced by the record attendance at all the shows and by the large number of exhibits staged by nurserymen and florists. More stock was available for gardens as well as for cut flower displays. The quality of the exhibits was high, with more attention being paid to details.

The following notes are concerned chiefly with the nurserymen's exhibits and garden displays of the shows at Philadelphia, Detroit and St. Louis and with the awards made at the New York and Chicago shows. Notes on the awards at the Boston show and descriptions of the exhibits at the New York, Chicago, Cleveland and Kansas City shows appeared in the April 1 issue of the American Nurseryman.

Philadelphia Show.

Although a few of the gardens at the first postwar Philadelphia flower show, held March 17 to 22 in the Commercial Museum, Philadelphia, Pa., followed traditional flower show patterns, many of them were evolved

around new ideas, and there was a great deal of variation. As usual, the exhibitors capitalized on the aisles of supporting pillars as a means of supporting backgrounds of considerable height, thus providing interesting elevations to the gardens.

Three large gardens were staged by C. S. Swayne, Springfield, Pa. First prize for an exhibit covering 1,600 square feet to be laid out as a formal garden was awarded to the Swayne exhibit, which was developed around a large circular pool and fountain, bordered with a circle of crocuses. Several other types of spring flowers in neatly edged beds completed the garden picture, which was framed with a pergola. Large quantities of natural rock were used in the rock garden, which was awarded a second prize. A special premium was awarded to the most spectacular of the Swayne gardens, a woodland waterfall covering approximately 1,000 square feet. All native plant materials were used in the garden, and statuary depicted the title of the setting, "Uncas Dances for the White Settler's Boy," a scene from "The Last of the Mohicans."

First prize for an outdoor living room was awarded to DeKalb Nurseries, Norristown, Pa. A large open grass panel was outlined with beds of spring-flowering bulbs. The flagstone terrace was backed with a white picket fence with large-flowering dogwoods and azaleas blooming across it. A first was also awarded DeKalb

Nurseries in the division calling for an exhibit covering approximately 300 square feet, consisting of an arrangement of permanent plant material for the base of a porch of an average-size suburban house.

Styer's Nurseries, Concordville, Pa., staged an intimate back-yard planting with a number of the choicer plant materials, such as daphnes, azaleas, cotoneasters, viburnums, flowering dogwoods and weeping Japanese cherries. First prize was awarded to them for a planting of material showing resistance to city climate.

A large rock garden, covering 1,600 square feet of space, exhibited by Vick's Wildgardens, Glen Moore, Pa., won first in two classes. Plantings were all developed from native materials, and the woodland setting was complete with waterfalls, streams, pools and paths.

Roy B. Nichols, Torresdale, Pa., won first in the rock garden class for gardens covering a thousand square feet. One of the most restful and subdued gardens in the show, it received many favorable comments for the restrained effect achieved.

The reproduction of Indian cave, Lehigh county, staged by Henry I. Faust Co., Merion, Pa., produced an unusual effect. There appeared to be a stream flowing gently from the mouth of the cave, which was constructed to give an illusion of great depth. Huge trees, gnarled grapevines and various native materials aided in producing a faithful reproduction.

For an exhibit covering 800 square feet, consisting of an area in a garden where an owner may find peace and privacy for relaxation, first was awarded to Andorra Nurseries, Inc., Conshohocken, Pa. John Albrecht Nurseries, Narberth, Pa., were awarded a first for a garden area suitable for an outdoor lounge or living room.

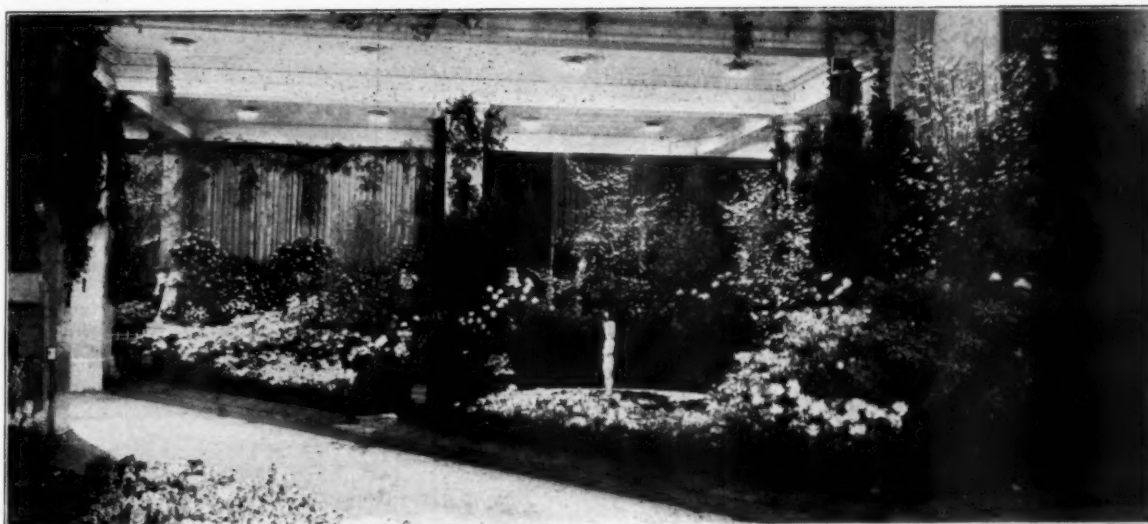
Features at Detroit.

A memorial garden, featuring a fountain on which colored lights played, controlled by an organ in the background, was the spectacular exhibit commemorating the 100th anniversary of the Monroe Nursery of I. E. Ilgenfritz' Sons Co., Monroe, Mich., at the Michigan flower and garden show, March 15 to 23, at Convention Hall, Detroit.

A long canal lined with sycamores and dotted with jets of water, which sprayed as high as the trees, led to a reflecting pool, where fountain



Exhibit of Palmgren's Nurseries, Glenview, Ill., at National Show, at Chicago.



Northern Garden by Bobbink & Atkins Awarded Special Trophy at International Flower Show.

sprays were lighted in rainbow colors to the accompaniment of organ music. Behind the jets was a diffusing glass, illuminated from the rear with gold-colored lights. The pool was further enhanced by edgings of junipers and blue, white and pink hydrangeas, with blue spruces as a background.

Large signs in the displays of the Pontiac Nursery Co., Romeo, and the Greening Nursery Co., Monroe, which flanked the rainbow fountain exhibit of I. E. Ilgenfritz' Sons Co., congratulated the Ilgenfritz firm on its one-hundredth anniversary, in an expression of friendly spirit and good will among competitors. In addition, some of the current advertisements of these companies carry similar messages. Center spread and back page advertisements in the Michigan Gardener, official publication of the Michigan Horticultural Society, conveyed the centennial congratulations of the Greening and Pontiac nurseries. Robert W. Essig, of the Pontiac Nursery Co., is president of the society.

A formal garden designed by Don C. Geake was the exhibit of Pontiac Nursery Co., Romeo, Mich. A summerhouse and pool were featured. The color scheme was pink and white, carried out by the use of flowering crabs and almonds. Popular varieties of hybrid roses were used in beds with miniature plantings of daphnes and bleeding hearts.

The Greening Nursery Co., Monroe, Mich., featured a solid wall of crab orchard stone leading to a circular paved area. An abundant planting of forsythias and yellow bulbous materials provided the main color scheme. A reflecting pool and a figure were accent points.

The Detroit department of parks staged several gardens, most outstanding of which was a large octagonal garden featuring spring bulbs and flowering shrubbery. Another was created in the shape of a heart with thousands of bulbs in bloom, bordered with blue and white hyacinths. Students in the landscape department of the University of Michigan designed a small garden which was executed by floriculture students at Michigan State College.

St. Louis Show.

The first postwar Greater St. Louis flower and garden show was staged in one spacious room of Kiel Auditorium, St. Louis, Mo., March 18 to 23. Garden areas were smaller than in past years, when the exhibitions were in two buildings, but each garden was complete in every detail, carrying out the theme "Gardens for St. Louis."

One area covering 10,000 square feet was devoted to gardens by nurserymen, professional landscape architects and the Missouri Botanical Garden. The botanical garden entry was a practical layout for a small home back-yard garden, which was bordered on two sides by a cedar hedge and an informal planting of flowering shrubs and bulbous plants. A wooden gate opened on a brick walk, which extended the length of the garden. At the rear was a service area with a small greenhouse and frame, in which were planted vegetables ready to pick.

A patio garden by A. Waldbart & Sons Nursery Co., St. Louis, featured a yew hedge around two sides of the garden, with a solid rustic fence at the rear. Wrought-iron garden furniture was arranged on the

brick terrace. Effective results were obtained with the use of forsythias, King Alfred daffodils and yellow tulips.

A brick walk leading to a bronze figure standing on a quarter-circle, raised area was featured in the garden of O. E. Goetz Nursery, Sappington, Mo. Multicolored tulips highlighted the exhibit, which was bordered on two sides by an arborvitae hedge.

Native limestone ledge rock in natural formation was exhibited as the foundation for a rock garden by Ambo Bros. Nursery, University City, Mo. A small pool was placed against a background of spruce trees, and forced rock plants and bulbous materials added color.

A garden by the Westover Nursery Co., University City, Mo., showed an informal arrangement of flowering shrubs, including forsythias, magnolias, spiraeas and viburnums, with bulbous material and evergreens. An informal flagged area was connected with a stepping-stone walk.

The Landscape and Nurserymen's Association of Greater St. Louis exhibited a formal garden of 1,300 square feet, with a flagstone patio, wrought-iron furniture and a large umbrella. Sides and rear of the garden were planted with flowering shrubs, and the garden proper was enclosed with a clipped cedar hedge. Within the patio area, a border of pink geraniums was displayed against the hedge.

All gardens in the show were awarded silver cups. Another nursery firm receiving awards in the show was Home Nursery Greenhouses, Edwardsville, Ill., which received first prizes in the cut flower class for fifty

[Continued on page 34.]

Prize Designs of Small Home Grounds

Following the publication of the designs which won first prizes in the regional competition for designs of small home grounds sponsored by the American Nurseryman and the National Landscape Nurserymen's Association, landscape plans which were close runners-up for those awards are appearing in current issues, each the recipient of an honorable mention and cash award. Hence readers will have a diversity of plans to study, as a result of this contest, both with reference to a particular zone and the treatment of any one of the four styles of houses.

On the opposite page appears the planting plan of John Watkins, Gainesville, Fla., for a ranch style house in zone 4.

Zone 4 includes that portion of the country with the mildest climate aside from the extreme southern portion in zone 5, the latter embracing

Florida, the Gulf coast, southern Texas and the lower half of coastal California. Zone 4 lies between that margin of our country and the northern boundary of the zone running southwestward from the vicinity of Philadelphia, midway through West Virginia, Kentucky and Arkansas, touching the southeastern corner of Oklahoma and then bending westward across Texas, New Mexico and Arizona, turning finally northward to embrace California and the coastal area of Oregon and Washington.

In a considerable portion of this area the ranch style home has particular appeal, and this planting plan will be consequently useful.

The problem set up for the ranch style house was that it should be located on a valleylike lot, gently rolling, 100x200 feet, the house to be placed no nearer than thirty-five feet

from the street or ten feet from the side lines. The family has two growing boys, age 10 and 13; hence provision should be made for a play area and perhaps for pets. The plan is based on intention of the family to maintain the grounds themselves and for the provision of a few fruit trees and 1,000 feet, or less, for a vegetable and small fruit garden.

The comments of the designer of the plan appear below.

A GRADUATE of Michigan State College, Joseph M. Nelis, Holland, Mich., has purchased the nursery and landscaping business of Ben Zenderink at Grand Haven, Mich., which he will continue, later establishing a complete line of bulbs and plants. Mr. Zenderink has moved to another location, where he plans to follow the same business on a smaller scale.

RANCH STYLE HOME, ZONE 4

The informal character of the well designed ranch style home, together with the requirements set forth in this problem, suggested to this designer a completely naturalistic treatment of the grounds.

Unquestioned adaptability of the plant material is attested by the fact that all of the species indicated are natives or successful escapes from cultivation. It is here suggested that while native species are indicated on the planting plan, the trees and shrubs should be purchased from a reliable nursery. Nursery-grown plants have many obvious advantages over wildlings, and it is well known that customers are best satisfied when disease-free, well pruned, properly cultivated, heavily rooted plants are employed. In lower zone 4 many plants of striking beauty grow with a minimum of attention, and the present planting plan makes fullest use of this fact.

The horizontal lines of the dwelling are complemented by the framing trees, a mimosa and a dogwood, both of which are notable for their structural interest and their showiness during springtime. Seen above the roof line are the tops of cabbage palms, much admired in the deep south for their semitropical character.

For wall decoration of the street facade, two clumps of Spanish bayonet are indicated. It is felt that these striking native plants will contribute much to the spirit of the scene, and yet it is well known that they require a minimum of attention. The annual removal of the thorns that arm the leaf tips and the periodic cutting out of stems that grow out of scale are all that is required.

The lower-growing Adam's-needle completes this simple yet adequate planting of the public area. It is the firm conviction of this garden planner that restraint in the use of plant material is in the best taste for a well designed modern home of this character.

The service area near the kitchen door is enclosed by naturalistic shrubbery borders. The native evergreen

BY JOHN WATKINS, GAINESVILLE, FLA.

southern wax myrtle and the beautiful fruiting yaupon accomplish the complete screening of this, the smallest of the unit areas.

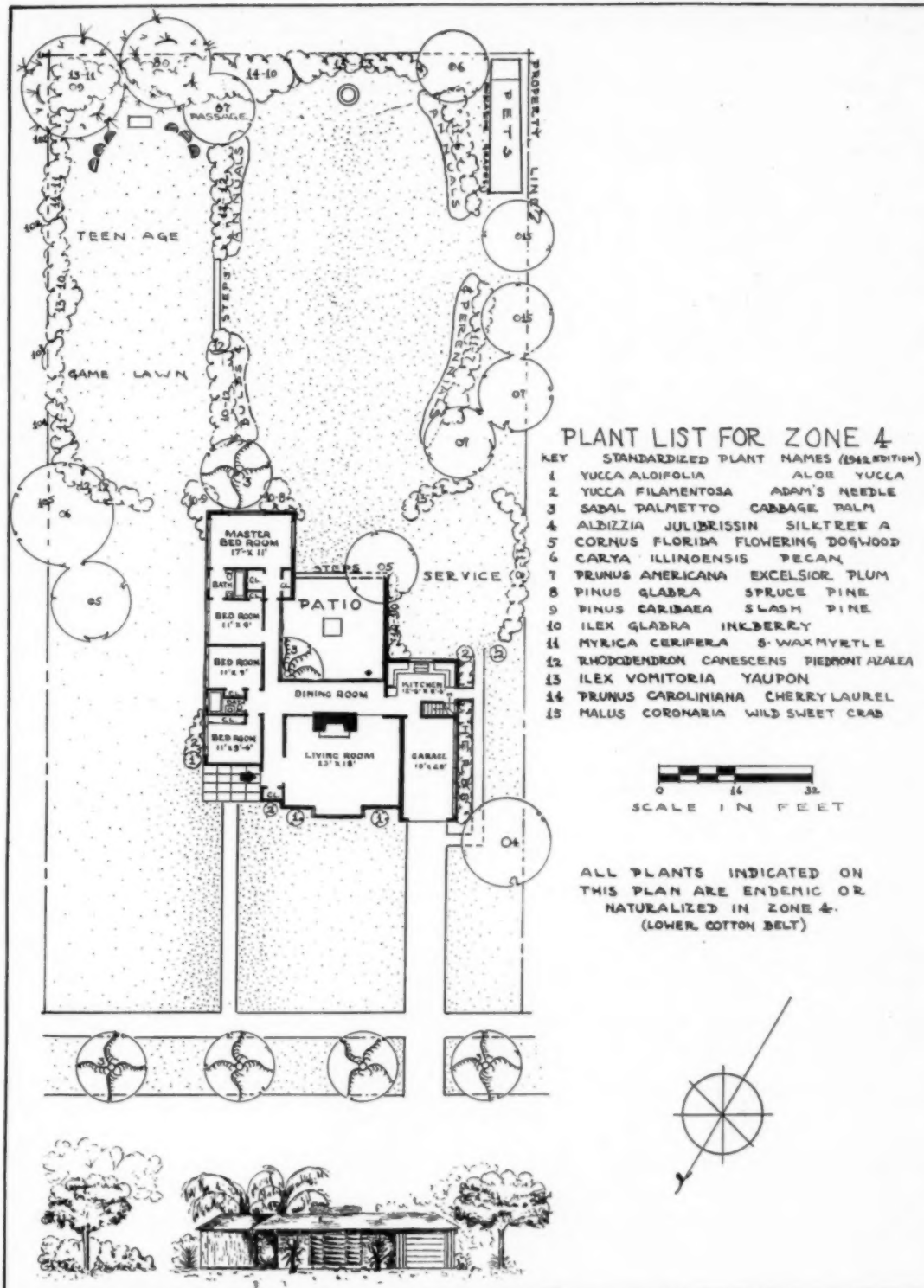
The L-shaped house lends itself to the development of a patio off the glass-enclosed dining room. By projecting the dining room wall, this little air-still area for relaxation and entertaining is easily accomplished. Floored with flagstones or random terrazzo and centered by a four-square water feature that repeats the shape of the patio, this room out of doors should be furnished with well designed, comfortable furniture, and appropriate potted plants should be placed around the water feature. A cabbage palm, chosen for its curved trunk, is placed in the northeast corner of the patio, where it serves as a partial roof and lends character as it is viewed from the glass-walled loggia which leads to the bedrooms.

By planning the patio two steps above the grade, an interesting transition to the valleylike, rolling lawn is made possible. The view is terminated by a carefully selected garden feature, which is backed by broad-leaved evergreen shrubs and framed by native trees.

In front of the naturalistic shrub borders which enclose the private area, drifts of annuals, bulbs and perennials lend seasonal color interest.

In this plan it is suggested that the teenage game lawn be raised about one foot above the great lawn. This could be accomplished easily at the time when the contractor was using his bulldozer for the first rough grading of the rolling, valleylike lot. The contour lines were lost in the reproductive process. Features in the game lawn are an outdoor fireplace and picnic furniture that would be used frequently by the two sons and their friends. In the southwest corner, the pets are to be housed, and when the boys outgrow this hobby, the owner may easily convert the structure to his gardening needs.

John Watkins.



PLANTING PLAN FOR A RANCH STYLE HOME

1946

SMALL HOME GROUNDS COMPETITION

Sanitation in Barberry Eradication

The importance of cooperation between nurserymen and state and federal departments of agriculture in the nursery sanitation phase of the barberry eradication project was emphasized by R. O. Bulger, pathologist with the bureau of entomology and plant quarantine, United States Department of Agriculture, in his talk January 14 at the meeting of the Illinois State Nurserymen's Association at Chicago, Ill. Mr. Bulger expressed the opinion that the cooperative relationship that has existed between these agencies has contributed much to the progress that has been made in barberry eradication for the control of the stem rust disease. A continuous future program of nursery sanitation is necessary to protect the present accomplishments, he believes.

Mr. Bulger stated that stem rust, recognized as the greatest single hazard to the production of wheat, oats, barley and rye crops, takes its toll after the principal costs of production have been incurred. Susceptible barberry bushes, the alternate hosts of this disease, play a doubly sinister role by initiating local epidemics of the rust disease and by providing the breeding places where new and destructive races of the rust fungus can develop.

Barberry eradication has provided and will continue to provide protection to those hundreds of thousands of acres of small grains that are susceptible to stem rust and will safe-

guard the acreage of rust-resistant varieties by reducing the possibility of the production of races of the disease to which the resistant varieties are susceptible.

Eighteen states, extending from the Virginias and Pennsylvania in the east to Washington in the west, comprise the barberry control area. Of the more than 1,000,000 square miles in the area that at one time required some type of coverage, seventy-two per cent is now considered to be so free of barberries that no more organized work is necessary. Rust-susceptible barberry bushes have been eliminated from all of the nurseries in the protected states.

To maintain that condition, positive action must be taken to preclude the reintroduction of susceptible stock from sources outside the protected states. Mr. Bulger believes that a cooperative program designed to keep the nurseries of the control states from being reinfested and to eliminate susceptible stock from the nurseries outside the control area, will go a long way toward the accomplishment of that objective.

One of the dangers is involved with the propagation and distribution of *Berberis thunbergii* stock. Frequently hybrid barberries, especially crosses of stem rust-susceptible *B. vulgaris* and resistant *B. thunbergii*, are found mixed with *B. thunbergii* stock in nurseries. These plants are grown from impure *B. thunbergii* seeds, or come in with liner stock of

B. thunbergii. When mother bushes of *B. thunbergii*, from which seeds are obtained, are growing near *B. vulgaris* or other susceptible barberry plants, cross-pollination between these species will result. It is difficult, if not impossible, to rogue out the hybrid bushes in the nursery row, because some plants that appear to be true *B. thunbergii* may produce seeds that would develop into bushes that are off type, both as to morphological characters and to their reaction to the stem rust fungus.

Mr. Bulger warned against the practice of hiring laborers to pick seeds indiscriminately from Japanese barberry bushes growing on urban and rural properties in localities where rust-susceptible bushes are growing. Nurserymen were encouraged to grow their immune and highly resistant stock from seeds that are definitely established as being pure and to be sure that liner stock obtained from outside the control area has been produced from pure seeds.

NEW PEACH VARIETIES.

Seven new peach varieties have been named and introduced by the Illinois agricultural experiment station and the department of horticulture of the University of Illinois, Urbana. Preliminary announcement of the new varieties has been made for the convenience of propagators, growers and testers and of nurserymen who wish to establish supplies of budwood. Trees were made available the past fall in limited numbers at the Vienna Nursery Co., Vienna, Ill.

The prefix "Prairie" has been used in the first of the series to be named by the station because Illinois was known as the Prairie state during the days of the covered wagon. New varieties are listed below, followed by their parents and ripening dates: *Prairie Dawn*, Valiant x *Halehaven*, July 11 or 12; *Prairie Sunrise*, Valiant x *Halehaven*, July 11 to 15; *Prairie Daybreak*, Valiant x *Halehaven*, July 20 to 23; *Prairie Rose*, Gage x *Halehaven*, July 23 to 25; *Prairie Schooner*, Elberta x *Southhaven*, July 28 to August 3; *Prairie Clipper*, J. H. Hale x Gage, August 22 to 25; *Prairie Rambler*, Elberta x Gage, August 22 to 28.



A-B, *thunbergii* type; B, intermediate type; C-B, *vulgaris* type. Progeny from a cross, immune *B. thunbergii* x susceptible *B. vulgaris*. Stem rust susceptible plants may develop from the seeds of any of these first-generation hybrids.

THE Garden & Nursery Store was recently opened at 234 Market street, Williamsport, Pa.

FLOWERING SHRUBS, HEDGE PLANTS, CANNAS and ROSES

FLOWERING SHRUBS

	Per 10	Per 100		Per 10	Per 100		Per 10	Per 100
Cornus alba sibirica (Siberian Dogwood)			Forsythia spectabilis (Showy Forsythia)			Spiraea thunbergi (Thunberg Spiraea)		
200 1 to 1 1/2 ft.	\$3.00	\$25.00	200 1 to 1 1/2 ft.	\$3.00	\$25.00	1000 1 to 1 1/2 ft.	\$2.50	\$20.00
200 1 1/2 to 2 ft.	3.50	30.00	500 1 1/2 to 2 ft.	3.50	30.00	100 1 1/2 to 2 ft.	3.00	25.00
Cydonia japonica (Red-flowering Quince)			100 2 to 3 ft.	4.00	35.00			
2000 1 to 1 1/2 ft.	3.00	25.00	300 3 to 4 ft.	5.00	45.00	Spiraea froebelii (Froebel Spiraea)		
250 1 1/2 to 2 ft.	3.50	30.00	Forsythia viridissima (Greenstem Forsythia)			100 12 to 15 ins.	2.50	20.00
300 2 to 3 ft.	4.00	35.00	600 1 to 1 1/2 ft.	3.00	25.00	200 15 to 18 ins.	3.00	25.00
Deutzia scabra Pride of Rochester			400 1 1/2 to 2 ft.	3.50	30.00	200 18 to 24 ins.	4.00	35.00
150 1 to 1 1/2 ft.	3.00	25.00	100 2 to 3 ft.	4.00	35.00			
250 1 1/2 to 2 ft.	3.50	30.00	50 3 to 4 ft.	5.00	45.00	Symphoricarpos chenaultii (Chenault's Coralberry)		
500 2 to 3 ft.	4.00	35.00	Philadelphus coronarius (Sweet Mock Orange)			100 2 to 3 ft.	4.00	35.00
150 3 to 4 ft.	5.00	45.00	40 1 to 1 1/2 ft.	3.00	25.00	250 3 to 4 ft.	5.00	45.00
Forsythia intermedia (Border Forsythia)			50 1 1/2 to 2 ft.	3.50	30.00			
100 1 to 1 1/2 ft.	3.00	25.00	300 2 to 3 ft.	4.00	35.00	Symphoricarpos orbiculatus (Coralberry)		
250 1 1/2 to 2 ft.	3.50	30.00	200 3 to 4 ft.	5.00	45.00	600 1 to 1 1/2 ft.	2.00	15.00
100 2 to 3 ft.	4.00	35.00	Philadelphus grandiflorus (Big Mock Orange)			1000 1 1/2 to 2 ft.	2.50	20.00
200 3 to 4 ft.	5.00	45.00	100 1 to 1 1/2 ft.	3.00	25.00	600 2 to 3 ft.	3.50	30.00
Forsythia fortunei (Fortune Forsythia)			250 1 1/2 to 2 ft.	3.50	30.00	50 3 to 4 ft.	4.50	40.00
500 1 to 1 1/2 ft.	3.00	25.00	600 2 to 3 ft.	4.00	35.00			
400 1 1/2 to 2 ft.	3.50	30.00	400 3 to 4 ft.	5.00	45.00	Symphoricarpos albus (White Snowberry)		
100 2 to 3 ft.	4.00	35.00	Spiraea A. W. (Anthony Waterer Spiraea)			500 1 to 1 1/2 ft.	2.50	20.00
50 3 to 4 ft.	5.00	45.00	200 9 to 12 ins.	2.50	20.00	700 1 1/2 to 2 ft.	3.00	25.00
Hibiscus syriacus (Double Althaea)			250 12 to 15 ins.	3.00	25.00	1000 2 to 3 ft.	4.00	35.00
1 to 1 1/2 ft.	\$3.00	\$25.00	400 15 to 18 ins.	3.50	30.00	100 3 to 4 ft.	5.00	45.00
1 1/2 to 2 ft.	3.50	30.00	200 18 to 24 ins.	4.00	35.00			
2 to 3 ft.	4.00	35.00				Lonicera tatarica (Tatarian Honeysuckle)	Per 10	Per 100
3 to 4 ft.	5.00	45.00				1 to 1 1/2 ft.	\$3.00	\$25.00
3 to 4 ft. 2 to 3 ft. 1 1/2 to 2 ft. 1 to 1 1/2 ft.						1 1/2 to 2 ft.	3.50	30.00
Purple 500 800 300 100						2 to 3 ft.	4.00	35.00
Pink 150 700 200 150						3 to 4 ft.	5.00	45.00
White 80 50 70						3 to 4 ft. 2 to 3 ft. 1 1/2 to 2 ft. 1 to 1 1/2 ft.		
Red 300 150						Tatarica alba (white) 200 450 200 150		
						Tat. rosea (pink) .. 50 .. 100		
						Tat. rubra (red) .. 50 500 350 150		

HEDGE PLANTS

	Per 10	Per 100	Per 1000
Ligustrum ovalifolium (California Privet)			
6 to 12 ins., 2 canes or more.	\$0.65	\$ 5.00	\$ 40.00
12 to 18 ins., 3 canes or more. ....	.75	6.00	50.00
18 to 24 ins., 3 canes or more. ....	.85	7.00	60.00
Ligustrum amurense (North Amur River Privet)			
6 to 12 ins., 2 canes or more. ....	.75	6.00	50.00
12 to 18 ins., 3 canes or more.	1.00	8.00	70.00
18 to 24 ins., 3 canes or more.	1.25	10.00	90.00
2 to 3 ft., 4 canes or more.	1.50	13.00	120.00
Ligustrum ibolium (Ibodium Privet)			
12 to 18 ins., 3 canes or more. ....	.85	7.00	60.00
18 to 24 ins., 3 canes or more.	1.00	8.00	70.00
Ligustrum ibota (Ibota Privet)			
12 to 18 ins.	1.25	10.00	
18 to 24 ins.	1.50	12.00	
2 to 3 ft.	2.00	18.00	
Berberis thunbergii (Japanese Barberry)			
9 to 12 ins., transplants.	2.00	15.00	125.00
Berberis thun. atropurpurea (Red-leaved Barberry)			
9 to 12 ins., transplants.	3.50	30.00	250.00
12 to 15 ins., transplants.	4.00	35.00	300.00

Acer platanoides (Norway Maple)	Per 10	Per 100
8 to 10 ft.	\$17.50	\$150.00
1 1/4 to 1 1/2-in. cal.	25.00	225.00
1 1/2 to 1 3/4-in. cal.	30.00	275.00
1 3/4 to 2-in. cal.	40.00	375.00

Ginkgo biloba (Maidenhair Tree)	Per 10	Per 100
6 to 8 ft.	\$20.00	\$175.00
8 to 10 ft.	25.00	225.00
1 1/4 to 1 1/2-in. cal.	30.00	275.00
1 1/2 to 1 3/4-in. cal.	40.00	375.00
1 3/4 to 2-in. cal.	50.00	475.00

Ulmus americana (American Elm)	Per 10	Per 100
1 1/4 to 1 1/2-in. cal.	\$17.50	\$150.00
1 1/2 to 1 3/4-in. cal.	25.00	225.00
1 3/4 to 2-in. cal.	32.50	300.00
2 to 2 1/2-in. cal.	45.00	425.00
2 1/2 to 3-in. cal.	75.00	

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ALLEMANIA. Tall. Flowers bright scarlet with yellow border; green foliage.	\$7.00	\$55.00
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MADAME CROZY. Dwarf. Flowers red with yellow edge; green foliage.	7.00	55.00
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SHENANDOAH. Salmon-pink flowers; bronze foliage.	7.00	55.00
WINTZER'S COLOSSAL. Medium. Red flowers; green foliage.	7.00	55.00

ROSES

	Per 10	Per 100
2-yr., No. 1.	\$6.00	\$50.00
2-yr., medium.	5.00	40.00
Varieties: Pink Radiance, Red Radiance, Talisman, Caledonia, Konigin Luise, President Hoover and American Beauty.		

SHADE TREES

A Garden at Night

By C. W. Wood

A follower of this column asks me to repeat in permanent form a talk he heard me give several years ago on the garden after dark. Careful search does not reveal the manuscript; so I shall improvise as follows, hoping that it may interest others.

Since I learned to know the beauty of a garden at night, I have been convinced that Southey got the inspiration for his poem, "How Beautiful Is Night!" from an evening spent in that setting. Where else could he have caught "the dewy freshness" which "fills the silent air"? In the garden at night, one sees, hears and smells things which are not apparent while the sun is the ruler of the scene. It may be that one does not realize that the garden is quite a different place at night from what it was during the day. If so, I shall try to show that a garden planted for the night may arouse one's senses as none other can.

Step with me into the garden, if you will, and see for yourself that few of the familiar objects of day look the same on this brilliant moonlit night. As we go down the silvered gravel path, the gaudy pansies which mark it in the daytime seem to shrink farther into the shadows of towering hollyhocks, leaving the scene to clumps of white violas. Here spreads of perennial candytuft catch the moon's eye as only candytuft can.

Walking at night through as familiar a place as one's garden takes on many aspects of adventure in foreign lands. As we approach the pergola, only the accentuated perfume of near-by purple lilacs tells us we are at home. When we enter the pergola tunnel, it might be a dark chasm in the Himalayas, with strange creatures awaiting us at the other end. But when we emerge, and the shadows close behind us, clumps of white lilacs and masses of fragrant white peonies and pinks assure us that we have not gone beyond the boundaries of the garden.

Before going farther, it may be pointed out that all the marring defects of the busy person's garden—the disfiguring seed heads and spent flowers, badly chosen associates, disturbing lines, inartistic touches—which are so plainly apparent under the searching eye of the sun, creep into the dim shadows at night, leaving an almost perfect picture. Discouragement may come, with reason, by day, but night brings contentment.

Then, all the discordant notes fade into nothingness, and one finds only faultless harmony, enhanced by intriguing sounds and fragrances.

Old-time gardeners seem to have had a greater appreciation for night-scented flowers than have we of modern times. Perhaps they had more time to spend with their flowers and, therefore, detected phases of their beauty and odor which we fail to find. Anyway, their records are full of the joy which was theirs in the night garden and of long lists of fragrant flowers which were a part of every garden. Today, we seem largely to have lost this appreciation of one of nature's most gratifying gifts. It would seem so, at least, if plant catalogs are a mark of the times, for one usually searches them in vain for references to fragrance.

That many night-scented flowers are dull during the day is no doubt one reason for their neglect, for we apparently resent even a hint of dreariness at any time. That, at least, seems to be the case with the night-scented stock, *Mathiola bicornis*, a shamefaced, drooping creature by day, which becomes transformed into an upstanding beauty of intense fragrance at night. If you cannot bear

to see a bedraggled bloom during the day, toss a pinch of the plant's seeds into an unfrequented corner, and you will bless it for its addition to your pleasure in the night garden.

Sweet tobacco, *nicotiana*, in its old, sweet-smelling white form, is in the same class, except that it is best started indoors and transplanted after settled weather arrives. Dame's violet, *Hesperis matronalis*, although less of a sleepyhead, really shows its worth after the sun sets, when it adds its full quota to the dewy night air.

For obvious reasons, nearly all flowers in the night garden should be white, cream or pale yellow, and as many as possible should be fragrant. White lilacs and white roses would, therefore, find prominent places in these plantings. Of the former, Edith Cavell, Jan Van Tol (intensely fragrant), Marie LeGraye, Mme. Casimir Perier, Mme. Lemoine, Mont Blanc and Vestale are to be recommended, not only for their haunting fragrance, but for the romantic charm of lilacs in general. It is presumptuous, I know, to attempt to give a short list of white lilacs, for so many good ones are sure to miss a place in it. But it is even more audacious to try to name a list of white roses for that

LINING-OUT STOCK

	Per 100	Per 1000
<i>Althaea</i> Lady Stanley, 2-yr. grafts.....	\$15.00	.....
<i>Althaea</i> Wm. R. Smith, best single white, 2-yr. grafts.....	15.00	.....
<i>Ampelopsis</i> Veitchii (Boston Ivy), strong, 1-yr. seedlings.....	5.00	\$ 45.00
<i>Berberis</i> <i>Atropurpureum</i> , 1-yr. seedlings.....	3.00	20.00
Strong 1-yr. seedlings, 3 to 9 ins.....	5.00	45.00
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These Red Berberies are a very good dark strain.		
<i>Biota</i> <i>Orientalis</i> , 1-yr. seedlings, 2 to 4 ins.....	3.50	25.00
<i>Juniperus</i> <i>Stricta</i> , 1-yr. C.T., 4 to 6 ins.....	20.00	180.00
<i>Juniperus</i> <i>Squamata</i> <i>Meyeri</i> , 1-yr. C.T., 5 to 7 ins.....	25.00	.....
<i>Juniperus</i> <i>Squamata</i> <i>Meyeri</i> , 4-yr. TT, from field rows, 9 to 12 ins.....	75.00	.....
<i>Laburnum</i> <i>Vulgare</i> (Golden Chain), 1-yr. seedlings, 5 to 10 ins.....	5.00	40.00
1-yr. seedlings, 10 to 18 ins.....	6.00	55.00
1-yr. seedlings, grafting size.....	8.00	75.00
<i>Taxus</i> <i>Cuspidata</i> (spreading), 3-yr. C.T., 8 to 12 ins.....	40.00	.....
<i>Taxus</i> <i>Brevifolia</i> , 3-yr. C.T., 6 to 8 ins.....	50.00	.....
<i>Taxus</i> <i>Capitata</i> , 1-yr. C.T., 4 to 8 ins.....	30.00	250.00
<i>Taxus</i> <i>Capitata</i> , (from seed) 4-yr. T., 4 to 6 ins.....	40.00	350.00
4-yr. T., 6 to 8 ins.....	50.00	450.00
4-yr. T., 8 to 10 ins.....	60.00	550.00
<i>Taxus</i> <i>Hicksii</i> , 1-yr. C.T., 4 to 6 ins.....	20.00	180.00
<i>Taxus</i> <i>Hatfieldi</i> (true), 1-yr. C.T., 4 to 6 ins.....	25.00	200.00
<i>Viburnum</i> <i>Carlesii</i> , 1-yr. grafts, T., 6 to 12 ins.....	60.00	500.00
<i>Wisteria</i> , Blue, 2-yr. seedlings, very strong roots.....	12.00	100.00
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purpose. The subject should not be passed, however, without a few remarks. In addition to your favorite kinds, it will pay you to investigate the following white and light-colored roses when you plant your night garden: Rosa alba, the York rose of Europe, with single to semidouble, large, flat, pure white roses on tall bushes; R. primula, a rose from western Asia, with fragrant ferny foliage and small, pale yellow flowers, very early for a rose; R. spinosissima, the pure white, very fragrant form for best results; Stanwell Perpetual, an old favorite, with double, flesh-pink flowers on 6-foot bushes throughout the season, now quite rare; Blanche Moreau, a moss rose with all the charm of old-time favorites in its double, white mossy flowers, and Vierge de Clery, a handsome, fragrant, pure white cabbage rose of bewitching qualities. Nor can I refrain from making a special plea for the roses of old, not only for use in the night garden, but for all gardens where plants of a past age are cherished.

Many other white-flowered shrubs could well find a place in the night garden. The shadbush, for instance, would make one think that a low-flying, fleecy spring cloud had caught in the branches. The deutzias, honeysuckles, especially Lonicera maackii to extend the season; white-flowered plums, almonds and cherries, usually listed under prunus in the catalogs; spiraeas, and viburnums will all add to the general effect. The mock oranges are especially valuable because of their wealth of flowers and delicious fragrance, which is found in most available forms except Philadelphus grandiflorus, which lost its odor when nature gave it large flowers.

The night garden would be embellished, of course, by a host of white-flowered herbs. One would want to commence the procession with snowdrops, the rock cresses (arabis), snowflakes, daffodils, white and light-colored primroses, pale tulips and the white sweet violet, whose fragrance is one of the most pleasant scents of spring. A little later, white sweet alyssums would appear like strips of silver ribbon strewn along the paths by the fairies, and fragrant white pinks would light up their areas and scent the entire garden with their head-turning odor. Canterbury bells, columbines, cerastiums, delphinium, summer phloxes, platycodons and many annuals, all in their white forms, would carry the procession into summer.

Let us hasten along to the pool, where we find the moon shimmering

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100 Deutzia Gracilis, 12 to 18 ins.	35.00
250 Forsythia Intermedia, 18 to 24 ins.	20.00
300 Forsythia Sieboldi, 18 to 24 ins.	20.00
250 Forsythia Spectabilis, 18 to 24 ins.	20.00
300 Hydrangea P. G., 12 to 18 ins.	35.00
100 Lilac, Villosa, 30 to 36 ins.	30.00
500 Ligustrum Regellanum, 2 to 2½ ft.	32.00
200 Lonicera Bella Albida, 2 to 3 ft.	30.00
200 Lonicera Morrowi, 3 to 4 ft.	30.00
225 Lonicera Tat. Pink, 2 to 3 ft.	27.00
250 Philadelphus Coronarius, 3 to 4 ft.	40.00
100 Philadelphus Coronarius, 12 to 24 ins.	22.00
100 Philadelphus Nivalis, 30 to 36 ins.	35.00
100 Philadelphus Nivalis, 24 to 30 ins.	30.00
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50 Sambucus Aurea, 3 to 4 ft.	35.00
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90 Sambucus Canadensis, 2 to 3 ft.	30.00
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700 Paul's Scarlet	300 Pink Radiance	300 Tallman
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230 Gruss an Teplitz		

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5/16-in.	\$4.00	\$30.00
18 to 24 ins.	25.00	
12 to 18 ins.	15.00	
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Bradshaw	211	103
Burbank	494	104
Golden Plum	50	14
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	Per 10	Per 100
5/16-in.	\$25.00	\$200.00
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18 to 12 to		
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Moorpark	168	43

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(dormant buds)

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5/16-in.	\$20.00	
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Early Elberta	260	
Sunglow	122	
Southhaven	266	
Champion	482	
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J. H. Hale	329	102
Golden Jubilee	97	79
Orlole	79	
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- 800 **Caledonia**
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- 1350 **Rouge Mallerin**
- 410 **Victoria Harrington**
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7/16-in.,	3.50	30.00
1-yr., 4 to 5 ft., whips.....	4.00	30.00

APPLES

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480	Yellow Delicious , 9/16-in.
200	Yellow Delicious , 7/16-in.
550	Stayman Winesap , 11/16-in.
350	Stayman Winesap , 9/16-in.
400	Stayman Winesap , 7/16-in.
380	Dbl. Red Stayman , 11/16-in.
400	Dbl. Red Stayman , 9/16-in.
300	Dbl. Red Stayman , 7/16-in.
600	Dbl. Red Delicious , 11/16-in.
640	Dbl. Red Delicious , 9/16-in.
400	Dbl. Red Delicious , 7/16-in.
200	Early Harvest , 9/16-in.
140	Early Harvest , 7/16-in.
180	Dbl. Red Jonathan , 11/16-in.
390	Dbl. Red Jonathan , 9/16-in.
300	Dbl. Red Jonathan , 7/16-in.

PEACH

	Per 10	Per 100
7/16-in.,	\$4.50	\$40.00
5/16-in.,	3.50	30.00

1000	Elberta , 7/16-in.
1000	Elberta , 5/16-in.
1000	Halehaven , 7/16-in.
1500	Halehaven , 5/16-in.
1000	Early Elberta , 7/16-in.
1500	Early Elberta , 5/16-in.
500	Champion , 7/16-in.
500	Champion , 5/16-in.
1000	Golden Jubilee , 5/16-in.
500	J. H. Hale , 7/16-in.
1500	J. H. Hale , 5/16-in.

APRICOTS

7/16-in.,	\$5.00 per 10; \$45.00 per 100.
360	Moorpark , 7/16-in.

STRAWBERRIES

Strawberry plants double inspected. Free of Red Stele Disease.

	Per 1000	Per 10,000
50,000 Sen. Dunlap	\$8.00	\$75.00
50,000 Robinson	8.00	75.00
50,000 Premier	9.00	85.00
500 at 1000 rate.		

THE KRIDER NURSERIES, INC.

Middlebury, Ind.

on the slightly rippled surface, looking up to the high-held flowers of a white Siberian iris. White Siberians are lovely any time and any place, but they are especially entrancing near the water, where one can enjoy them doubly, once in reality and again in reflection. They are triply enjoyable when the moon plays on them and the pool together. Soon after the Siberians lay down their banners, sweet pepper bushes, in a wetter spot near by, carry on into September with their spikes of creamy, fragrant flowers. Back of them, on higher ground, the white meadowsweets, including *Filipendula camtschatica*, with foamy masses of flowers held five or six feet high, and the white form of *F. purpurea*, a 3-foot plant, make merry from June until August, the former confining most of its efforts to July.

Still farther in the background, masses of goatsbeard, *Aruncus sylvestris*, hang out their fleecy clouds on 4-foot stems during June. A little farther along the path, on the shady side, you will notice spreads of sweet woodruff, *Asperula odorata*, which adds another connecting link with gardens of old. It does its share, with heads of snowy-white flowers, to make the night garden more beautiful and later gives a peculiar, pleasing fragrance to linen closets, potpourri and so on.

In time we come to a planting of astilbes which is one of the loveliest in the night garden. You will notice how the moonbeams steal through the rather sparse foliage of an overhanging elm to search out the airy, lacy plumes of the astilbes, which, incidentally, are all white-flowered forms—Betty Cupereus, Gerbe d'Argent, Moerheim and Pyramidal. This is a beautiful picture during the day throughout July and August and a favorite spot for the gardener during hot afternoons. But its greatest charm comes at night, when the moon touches the lacy flowers through a canopy of elm leaves.

The planting in front of the astilbes, now out of flower, is composed of white and pale forms of the common shooting star, *Dodecatheon meadia*, which makes a joyous company earlier in the year, relishing the same cool shade and rich, woody soil. There also grows the fringed bleeding heart, *Dicentra formosa* Sweetheart, one of the fairest of fairies of the night garden and a most important plant anywhere. In northern Michigan it blooms from the usual formosa time in spring until frost puts it to sleep, not sparingly, as many long-time bloomers do, but fairly frothing white sprays all the time. It requires little care, except

REVISED SURPLUS LIST

Below we are listing our surplus of Fruit Trees, Roses and Shrubs. ALL of the stock listed is in our Storage ready for immediate shipment and in perfect condition.

Terms and Conditions: Same as for our regular Trade List.

Orders booked in rotation as received.

RATES: While we have priced each, it is with the understanding that orders must be for ten or multiples thereof of a variety and size and no order for less than 100 plants.

APPLE, 1-year, well branched

	11/16-in. and up 9/16 to 11/16-in.	50c ea.	40c ea.
Red Delicious	2000	1100	
Jonathan	60	....
Limbertwig	40	....
Mammoth Black Twig	180	80	
Red Northern Spy	30	....
Stayman Winesap	280	....
Winesap	300	300	
Yellow Delicious	180	500	

PEACH, 1-year, well branched

	1-in. and up 60c ea.	11/16 to 1-in. 50c ea.	9/16 to 11/16-in. 40c ea.	7/16 to 9/16-in. 30c ea.
Belle of Georgia	250	750	1100	800
Carman	70	250	300	280
Early Elberta	1200	....	....	....
Early Hilley	700	1800	....	....
Early Rose	80	700	300	300
Elberta	2200	2000	1200	....
Golden Jubilee	500	....	....	....
Hilley	80	....	....	....
Heath Cling	300	200	60	....
Indian Cling	80	....	300	....
Krummell's Late	250	200	200	200
Mayflower	60	200	200	200
Red Bird	....	....	100	....
Redhaven	450	300	400	....
Polly	50	200	....	....
Rochester	....	....	....	....

PLUM, APRICOT and NECTARINE, 1-year on Peach

	1-in. and up 80c ea.	11/16 to 1-in. 75c ea.	9/16 to 11/16-in. 65c ea.	7/16 to 9/16-in. 50c ea.	2 to 3 ft. 40c ea.
Abundance	80	....	....	300	....
Burbank Plum	100	....	....	500	1200
Mammoth Gold Plum	....	....	....	....	900
Shropshire Damson	....	....	....	300	400
Alexander Apricot	....	....	....	200	....
Superb Apricot	....	....	....	200	....
Boston Nectarine	100	400	....	....	....

GRAPE, 2-year, No. 1

2,000 Niagara	at 15c each
3,000 Concord	at 15c each
1,500 James Scuppernon	at 35c each

ROSES

	No. 1 50c ea.	No. 1½ 35c ea.	No. 2 25c ea.
Ami Quinard	300	500	2000
Caledonia	....	....	1000
Etoile de Hollande	1800	2000	2200
Frau Karl Druschki	....	....	1000
Gruss an Teplitz	....	....	1000
Konigin Luise	1500	2000	2000
Pink Radiance	500	700	500
Red La Fayette	1800	2500	2700
Red Radiance	500	600	300
Poinsettia	....	....	....

CLIMBING ROSES

	No. 1 40c ea.	No. 1½ 30c ea.	No. 2 20c ea.
Climbing American Beauty	1200	2000	1500
Dr. Van Fleet	1200	1500	....
Gardenia	600	1000	300
Mary Wallace	100	400	400
Paul's Scarlet	2000	3000	3000
Silver Moon	100	200	200

MISCELLANEOUS ROSES

	No. 1 45c ea.	No. 1½ 30c ea.	No. 2 20c ea.
F. J. Grootendorst	500	400	300
Paul Neyron	1500	2000	2000

SHRUBS

	4 to 5 ft. each	3 to 4 ft. each	2 to 3 ft. each	18 to 24 ins. each
Anemoneflora Althaea	400 at 20c	600 at 17c	500 at 14c	500 at 14c
Ardens Althaea	300 at 20c	500 at 17c	400 at 14c	400 at 14c
Boule de Feu Althaea	400 at 20c	500 at 17c	400 at 14c	400 at 14c
Comte de Hainaut Althaea	300 at 20c	400 at 17c	300 at 14c	300 at 14c
Lucy Althaea	300 at 20c	400 at 17c	300 at 14c	300 at 14c
Paconiflora Althaea	300 at 20c	400 at 17c	300 at 14c	300 at 14c
Beauty Bush	....	50 at 35c	50 at 25c	50 at 25c
Forsythia Fortunei	800 at 30c	1500 at 25c	1000 at 20c	....
Forsythia Intermedia	1000 at 30c	1800 at 25c	900 at 20c	....
Lonicera Fragrantissima	....	....	....	500 at 15c
Spiraea Vanhouttei, 2-year	....	....	1000 at 17c	1500 at 14c
Butterfly Bush, Charming	500 2-yr. No. 1, 25c ea.	400 2-yr. med., 20c ea.	400 2-yr. med., 20c ea.	400 2-yr. med., 20c ea.
Butterfly Bush, Dubonnet	400 2-yr. No. 1, 25c ea.	400 2-yr. med., 20c ea.	400 2-yr. med., 20c ea.	400 2-yr. med., 20c ea.
Butterfly Bush, Magnifica	500 2-yr. No. 1, 20c ea.	400 2-yr. med., 20c ea.	400 2-yr. med., 20c ea.	400 2-yr. med., 20c ea.

HUNTSVILLE WHOLESALE NURSERIES, INC.

HUNTSVILLE, ALABAMA

LAST CALL—FOR LINING-OUT STOCK

The following Shrubs, Trees and Vines are in good dormant condition and are offered for immediate shipment.

HARDY DECIDUOUS FLOWERING SHRUBS

S.—Seedlings; C.—Cutting-grown;
Tr.—Transplanted; Br.—Branched;
L. O.—Lining Out; Div.—Divisions.

THAEA. HIBISCUS SYRIACUS.

Shrub Althaea.

Amplissimus, Double Red.

Ardens, Double Violet.

Boule de Feu, Double Red.

Jeanne d'Arc, Double White.

Pulcherrimus, Double Pink.

to 3 ft., Tr. Per 100 1000

to 12 ins., C. \$0.40 \$ 3.00 \$ 25.00

to 18 ins., C. .50 3.50 30.00

to 24 ins., C. .60 4.00 35.00

to 18 ins., Tr. 1.00 8.00 60.00

to 24 ins., Tr. 1.50 12.00 100.00

to 3 ft., Tr. 2.00 15.00 125.00

Jeanne d'Arc only.. 2.50 20.00 150.00

to 5 ft., Tr. 3.50 30.00 280.00

Pulcherrimus only 3.50 30.00 280.00

THAEA ROSEA.

Single flowers, mixed colors.

to 6 ins., S. .50 4.00

to 12 ins., S. .50 7.00

to 18 ins., S. 1.25 10.00

to 24 ins., S. 1.50 12.00

IONIA MELANOCARPA.

Black Chokeberry.

IONIA ARBUTIFOLIA.

Red Chokeberry.

to 18 ins., L. O. Div. 1.50 12.00

to 24 ins., L. O. Div. 2.00 15.00

to 3 ft., L. O. Div. 2.50 20.00

IRAGANA ARBORESCENS.

Pea Tree.

to 12 ins., S. 3.00 25.00

to 18 ins., S. 4.00 30.00

PUTZIA SCABRA.

Candidissima, Double White.

Crenata Flore Plena, Double Pink.

Pride of Rochester, Double Rose.

to 12 ins., C. .35 2.50 20.00

to 18 ins., C. .40 3.50 30.00

to 24 ins., C. .50 4.00 35.00

to 18 ins., well Br. .70 6.00 50.00

to 24 ins., well Br. 1.25 10.00 80.00

FRAXINUS.

Fortunei, Fortune Forsythia.

Intermedia, Border Forsythia.

Viridissima, Greenstem Forsythia.

to 12 ins., C. .30 2.50 20.00

to 18 ins., C. .35 3.00 25.00

to 24 ins., C. .40 3.50 30.00

DRANGAEA ARBORESCENS.

Native Hydrangea.

to 12 ins., 1-year. .30 2.50 20.00

to 18 ins., 1-year. .40 3.50 30.00

to 24 ins., 1-year. .50 4.50 40.00

SPERICUM PROLIFICUM.

Shrubbery St.-John's-wort.

to 12 ins., S. .30 2.00 15.00

to 18 ins., S. .35 2.50 20.00

to 18 ins., S., well Br. 1.00 9.00 80.00

to 24 ins., S., well Br. 1.25 11.00 100.00

to 3 ft., S., well Br. 2.00 15.00 125.00

LIGUSTRUM AMURENSE.

Amur River North Privet.

Per 10 100 1000

6 to 15 ins., L. O. \$0.30 \$ 2.50 \$ 20.00

6 to 9 ins. 2 br. up. .40 3.00 25.00

9 to 12 ins. 2 br. up. .45 4.00 35.00

12 to 18 ins. 3 br. up. .70 6.00 55.00

18 to 24 ins. 2 br. up. .70 6.00 55.00

2 br. up. .70 6.00 55.00

18 to 24 ins. 3 br. up. .85 7.50 70.00

2 to 3 ft. 4 br. up. 1.00 9.00 85.00

3 to 4 ft. 5 br. up. 1.50 12.50 100.00

LIGUSTRUM IBOLIUM.

Ibodium Privet.

Per 10 100 1000

to 12 ins., 2 br. up. \$0.45 \$ 4.00 \$ 35.00

to 18 ins., 2 br. up. .60 5.00 45.00

to 18 ins., 3 br. up. .70 6.00 55.00

to 24 ins., 3 br. up. .85 7.50 70.00

LIGUSTRUM OVALIFOLIUM.

California Privet.

Per 10 100 1000

6 to 15 ins., L. O. \$0.25 \$ 1.75 \$ 15.00

6 to 12 ins. 2 br. up. .35 2.50 20.00

12 to 18 ins. 2 br. up. .45 4.00 30.00

18 to 24 ins. 2 br. up. .55 5.00 40.00

18 to 24 ins. 3 br. up. .70 6.00 50.00

LIGUSTRUM SINENSE.

Amur River South Privet.

Per 10 100 1000

6 to 12 ins., S. .30 2.00 15.00

12 to 18 ins., S. .40 3.00 25.00

18 to 24 ins., S. .50 4.00 35.00

12 to 18 ins., 2-yr. Br. S. \$0.40 3.00 25.00

18 to 24 ins., 2-yr. Br. S. .50 4.00 35.00

2 to 3 ft., 2-yr. Br. S. .60 5.00 40.00

LONICERA BELLA ALBIDA.

White Belle Honeysuckle.

3.00 25.00

6 to 12 ins., C. 3.50 30.00

12 to 18 ins., C. 4.00 35.00

12 to 18 ins., 3 br. up. .70 6.00

LONICERA FRAGRANTISSIMA.

Winter Honeysuckle.

6 to 12 ins., C. .40 3.00 25.00

12 to 18 ins., C. .45 3.50 30.00

18 to 24 ins., C. .50 4.00 35.00

12 to 18 ins., 3 br. up. .70 6.00

LONICERA MORROWI.

Morrow's Honeysuckle.

LONICERA TATARICA.

Tatarian Honeysuckle.

Varieties of Tatarian.

Alba, White.

Rosea, Pink.

Lining-out grade 3.00 25.00

6 to 12 ins., C. 3.50 30.00

PHILADELPHUS CORONARIUS.

Sweet Mock Orange.

6 to 12 ins., C. .40 3.50 30.00

12 to 18 ins., C. .50 4.00 35.00

ROBINIA HISPIDA.

Rose Acacia (Moss Locust).

12 to 18 ins., L. O. Div. .30 2.50 20.00

18 to 24 ins., L. O. Div. .45 3.50 30.00

2 to 3 ft., L. O. Div. .50 4.00 35.00

SPIRAEA BILILIARDI ALBA.

White Spike Bloom.

6 to 12 ins., 1-yr. C. .40 3.00 25.00

12 to 18 ins., 1-yr. C. .50 4.00 30.00

SPIRAEA REEVESIANA.

Single White Flower.

6 to 12 ins., C. .40 3.00 25.00

12 to 18 ins., C. .50 4.00 35.00

SYMPHORICARPOS VULGARIS.

Coralberry.

6 to 12 ins., C. .20 2.00 15.00

12 to 18 ins., C. .25 2.00 20.00

18 to 24 ins., C. .60 5.00 50.00

VIBURNUM TOMENTOSUM Plicatum.

Japanese Snowball.

12 to 18 ins., 2 br. up. 2.00 17.50

18 to 24 ins., 2 br. up. 3.00 25.00

WEIGELA AMABILIS.

Light Pink Weigela.

Lining-out grade .35 3.00

6 to 12 ins., C. .45 3.50

12 to 18 ins., C. .55 5.00

18 to 24 ins., C. .70 6.00

WEIGELA LUTEA.

Yellow Weigela.

Lining-out grade .60 5.00

6 to 12 ins., 1-year, C. .80 6.00

12 to 18 ins., 1-year, C. 1.00 8.00

WEIGELA HENDERSONIA.

Dark Pink Weigela.

WEIGELA ROSEA.

Pink Weigela.

Lining-out grade .40 3.50 30.00

6 to 12 ins., C. .50 4.00 35.00

12 to 18 ins., C. .60 5.00 45.00

FOREST AND SHADE TREES

ACER DASYCARPUM.

Silver Maple (Soft).

Per 10 100 1000

6 to 12 ins., S. \$ 1.00 \$ 8.00

12 to 18 ins., S. 1.25 10.00

18 to 24 ins., S. \$0.20 1.50 12.50

ALBIZZIA JULIBRISSIN.

Mimosa Tree.

2 to 3 ft., S. 1.25 10.00

5 to 6 ft., Tr. 7.00 60.00

6 to 8 ft., Tr. 10.00 90.00

8 to 10 ft., Tr. 12.50 100.00

FAGUS AMERICANA.

American Beech.

4 to 6 ins., S. 1.00 8.00

6 to 12 ins., S. 1.25 10.00

12 to 18 ins., S.25 1.50 12.00

18 to 24 ins., S.30 2.00 15.00

FRAXINUS AMERICANA.

White Ash.

FRAXINUS LANCEOLATA.

Green Ash.

6 to 12 ins., S. 1.00 8.00

HICORIA LACINIOSA.

Shellbark Hickory.

HICORIA OVATA.

Shagbark Hickory.

6 to 12 ins., S.60 5.00 40.00

12 to 18 ins., S.70 6.00

JUGLANS CINEREA.

Butternut.

6 to 12 ins., S.50 3.50 30.00

12 to 18 ins., S.60 5.00 40.00

18 to 24 ins., S.80 7.00 60.00

JUGLANS NIGRA.

Black Walnut.

6 to 12 ins., S.35 2.50 20.00

12 to 18 ins., S.50 3.50 30.00

18 to 24 ins., S.60 5.00 40.00

2 to 3 ft., S.80 7.00 60.00

3 to 4 ft., S. 1.50 12.00 100.00

LIRIODENDRON TULIPIFERA.

Tulip Tree.

2 to 3 ft., S.35 3.00 25.00

3 to 4 ft., S.60 5.00 40.00

3 to 4 ft., Tr. 4.00 35.00

4 to 5 ft., Tr. 6.00 50.00

5 to 6 ft., Tr. 7.00 60.00

6 to 8 ft., Tr. 10.00 75.00

8 to 10 ft., Tr. 12.50 100.00

MAELURA POMIFERA.

Osage Orange.

6 to 12 ins., S.30 2.50 20.00

12 to 18 ins., S.40 3.50 30.00

POPULUS NIGRA ITALICA.

Lombardy Poplar.

6 to 12 ins., S.20 1.50 12.00

12 to 18 ins., S.30 2.00 17.50

18 to 24 ins., S.40 3.00 25.00

PRUNUS CISTENA.

Purpleleaf Plum.

dividing and resetting in fresh, woody soil every third or fourth year.

You have no doubt noticed, as we have wandered through the garden, the moonlight on mist which seems to have gathered in open places. It is not, however, a condensation of anything except the loveliness of the ordinary baby's breath, a plant of more uses than any other that I know. There is not space to dwell upon its virtues now, if we are to see any more of the night garden, but let me leave the remark that it is capable of filling many a useful role not often assigned it. Right now you can see that its misty effect is one of the loveliest in the night garden.

It is at the western side of the garden that the bearded irises hold sway. This phase of the night garden was purposely left for the last, because most gardeners who plant gardens for the night overlook as common a thing as bearded irises. Here you will notice the outstanding beauty in the gloom of all the white varieties. Because the garden is a rather old one, modern varieties are rather poorly represented, but you will notice that, no matter how ordinary they may be in daylight, even the old kinds, such as White Knight, Old Ivory and the gloriously fragrant *florentina alba*, all of which most gardeners consider outmoded, take on special charms at night.

You will note, too, that the gas plant, *Dictamnus albus*, one of the favorite landscape plants, which serves as a background for the iris border and is now coming into bloom, will give this area a special luminosity in a few nights. All through August and early September, the same part of the garden will reflect the moonbeams in the upturned trumpets of *Datura meteloides*.

The moon has set, I am sorry to say, and we must cease our explorations for this night. I hope, however, that you may have seen enough to make you want to plant a garden for the night. When that happy time comes, I am sure that you will want to add a few words to Byron's lines: "The night shows stars and women in a better light."

CHARLES MACEMON has sold his landscape contract company, Macemon & Sons, Racine, Wis., to Macemon Bros., who will continue the business as Macemon & Sons. Charles Macemon will continue his connection with the trade as Macemon's Nursery, combining a cash-and-carry nursery, greenhouse and seed store.

FOR IMMEDIATE SHIPMENT

		Per 100
70	<i>Aristolochia siphon</i> , 2 to 4 feet.....	\$70.00
2500	<i>Calycanthus floridus</i> , seedlings, 4 to 8 ins.....	4.00
500	<i>Euonymus kawensis</i> , heavy, 2-in. rose pots.....	12.00
400	<i>Hydrangea P. G.</i> , 2 to 3 feet.....	40.00
400	<i>Spiraea Anthony Waterer</i> , 15 to 18 ins.....	35.00
1000	<i>Thuja orientalis aurea nana</i> , 1-year grafts.....	45.00
500	<i>Viburnum opulus sterile</i> , 2 to 3 ft.....	40.00
500	<i>Weigela Eva Rathke</i> , 2 to 3 ft.....	40.00

FOR LATER SHIPMENT, WHEN READY

EVERGREEN GRAFTS FROM POTS

250	<i>Chamaecyparis obtusa crippsii</i>	40.00
250	<i>Chamaecyparis obtusa gracilis</i>	40.00
250	<i>Juniperus chinensis columnaris</i>	45.00
400	<i>Thuja occidentalis pyramidalis</i>	35.00
100	<i>Thuja occidentalis rosenthalii</i>	35.00
100	<i>Thuja occidentalis spiralis</i>	35.00
2000	<i>Thuja orientalis aurea nana</i>	35.00

PERENNIALS

1500	<i>Cimicifuga racemosa simplex</i> , divisions, 2 eyes up.....	20.00
100	<i>Hemerocallis Hyperion</i>	30.00
500	<i>Hemerocallis Mikado</i>	15.00
1500	<i>Phlox</i> in variety, from 3-inch pots, list on request.....	15.00
400	<i>Trollius europaeus Earliest of All</i> , 2 1/4-inch pots.....	18.00
400	<i>Trollius europaeus Fire Ball</i> , 2 1/4-inch pots.....	18.00
400	<i>Trollius europaeus First Lancers</i> , 2 1/4-inch pots.....	18.00
400	<i>Trollius europaeus Lemon Queen</i> , 2 1/4-inch pots.....	18.00
400	<i>Trollius europaeus superbus</i> , 2 1/4-inch pots.....	18.00

ROOTED CUTTINGS FROM SAND

2500	<i>Taxus cuspidata</i> , upright, from tips.....	12.00
3500	<i>Taxus cuspidata</i> , spreading, good type.....	9.00

IMPORTED STOCK, FOR SHIPMENT ON ARRIVAL

		Per 100
200	<i>Aristolochia siphon</i> , 2-year transplants.....	\$25.00
5000	<i>Buxus sempervirens</i> , 2-year rooted cuttings.....	10.00
500	<i>Laburnum vossii</i> , 1-year grafts.....	30.00
1500	<i>Magnolia</i> , 1-year transplants, about 12 to 24 inches, in following varieties: <i>alba superba</i> , <i>alexandrina</i> , <i>stellata</i> , <i>soulangeana</i> and <i>soulangeana nigra</i>	100.00
1000	<i>Weigela Eva Rathke</i> , 2-year, heavy, special selected.....	25.00

Cash with Order, Please.

VAN TOL NURSERIES

Teaticket (on Cape Cod), Mass.

FOLLOWING STOCK ON ORDER

Delivery last of April. Subject to prior sale.

		Per 100	Per 1000
1500	Roses, Hybrid Tea, No. 1 1/2, good selection.....	\$37.50	\$325.00
450	Roses, Polyantha, No. 1 1/2, good selection.....	37.50	.....
800	Roses, Hybrid Tea, No. 1, xx, good selection.....	47.50	.....
500	Roses, Polyantha, No. 1, xx, good selection.....	47.50	.....

The above is all the imported stock I can offer for this spring. Terms: Half Cash. Lining-out stock as advertised in the March 1 issue and other items.

ARTHUR DUMMETT

63 Anderson Rd.

Bernardsville, N. J.



Industry re-discovered Oregon during the war. It found opportunities capable of providing a livelihood for 10 times the state's present population.

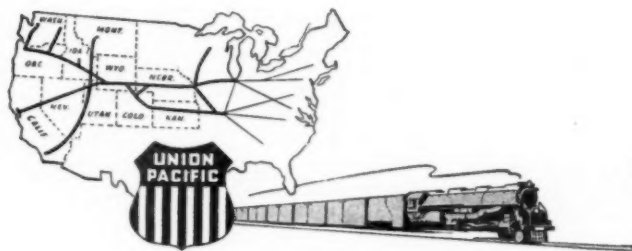
Topographical, soil and climatic features make possible a variety of agricultural pursuits. The state has one-fourth of the country's standing saw timber. Salmon fisheries and woolen goods are world-famous. Portland's roomy harbor is a flourishing gateway of foreign commerce.

Huge Bonneville Dam assures ample and econom-

ical power. Oregon is noted for low electric rates.

Union Pacific provides Oregon with excellent transportation. Gigantic locomotives haul the state's products eastward over the "strategic middle route." And—just recently—Union Pacific inaugurated daily Streamliner service on the "City of Portland" between Portland and Chicago; the first railroad to provide such service.

For assistance in selecting industrial sites in Oregon, and for unsurpassed rail transportation, just . . .



**be Specific -
say "Union Pacific"**

** Address Industrial Department, Union Pacific Railroad, Omaha 2, Nebraska, for information regarding industrial sites.*

UNION PACIFIC RAILROAD
THE STRATEGIC MIDDLE ROUTE

Mail-order Men Meet

A preview of the 1947 selling season was had March 21, when forty-nine diners, representing twenty-nine mail-order catalog nursery firms, gave their reports on sales, labor and advertising, following a steak dinner at the Shoreham cafe, four miles south of St. Joseph, Mich.

Robert Ackerman, Sr., Ackerman Nurseries, Bridgman, Mich., reported back from a 9-week stay in Florida wearing a deep coat of tan.

Charles Richards, of Richards Gardens, Plainwell, Mich., was back from nine weeks in California, ready to prepare for the April 4 meeting when the mail-order nurserymen were to be guests of Richards Gardens and the Burgess Seed & Plant Co., Galesburg, Mich., at the Red Brick tavern.

Howard Maloney, Maloney Bros. Nursery Co., Dansville, N. Y., reported, "Orders are off considerably from last year, but they are still ahead of normal."

Vance Beatty, of R. M. Kellogg Co., Three Rivers, Mich., said, "March sales were thirty per cent under those of March, 1946, and yet very good. Expenses are up. Advertising has cost forty per cent more and has produced only thirty per cent more inquiries."

Robert Ackerman, Jr., of Ackerman Nurseries, Bridgman, Mich., stated, "Our January volume was the same as that of January of last year; February was off fifteen per cent, and March is off thirty per cent. Volume is now running about the same as in 1944."

A. M. Grootendorst, Benton Harbor, Mich., reported, "Our wholesale orders of bulbs check with the reports of retailers."

Walter Montfort, of Cutler & Downing Co., Benton Harbor, Mich. (wholesale fruits), reported, "Our wholesale orders are better than anticipated. Commercial orchardists seem to be putting out larger plantings. Commercial men are not kicking on the prices for small fruit plants."

Victor Judson, Judson Wholesale Nurseries, Bristol, Ind. (wholesale strawberry plants and phlox), said, "It has been too cold to plant, and orders from the south have not given much of a hint of buying for 1947."

Harold Hunziker, of M. J. Hunziker & Sons, Niles, Mich. (landscape nurserymen), stated, "We do not have the backlog of orders that we have had heretofore, because we pretty well caught up with our orders last fall. I think the landscape archi-

tect is going to have his innings for a few years now. I advise nurserymen to produce seedling evergreens for the conservation demands."

Arthur Watson, A. L. Watson's Nurseries, Grand Rapids, Mich., speaking as a propagator, said, "We have had more inquiries this March than in any March for a long time. A great many of our old customers have doubled their orders, and all have increased their orders for lining-out stock over other years."

Earl Gascoigne, Gascoigne & Owen, St. Joseph, Mich. (advertising), stated, "We see no further rise in the cost of printing, except possibly for an increase in the price of paper."

J. C. Van Lierop, Hartford Farms,

NORTHERN-GROWN EVERGREENS FOR LINING-OUT

	Per 100	Per 1000
Canada Hemlock		
4 to 8-in. seedlings	\$ 4.00	\$ 25.00
8 to 12-in. seedlings	5.00	40.00
12 to 18-in. seedlings	20.00	....
18 to 24-in. seedlings	30.00	....
4 to 8-in. transplants	20.00	180.00
8 to 12-in. transplants	25.00	225.00
Balsam Fir		
4 to 8-in. seedlings	5.00	30.00
8 to 12-in. seedlings	8.00	60.00
American Arborvitae		
4 to 8-in. seedlings	3.00	20.00
8 to 12-in. seedlings	5.00	40.00
Oldfield Common Juniper		
4 to 8-in. seedlings	6.00	50.00
8 to 12-in. seedlings	10.00	90.00
Eastern Red Cedar		
4 to 8-in. seedlings	5.00	40.00
8 to 12-in. seedlings	10.00	80.00

Send for complete list of first-quality collected Northern-grown Hardy Native Trees, Shrubs and Plants.

ISAAC LANGLEY WILLIAMS
P. O. Box 352 Exeter, N. H.

AQUILEGIA

LONG-SPURRED BLUE SHADES

It is our opinion that the strain we offer is the finest in existence. The flowers are immense, on tall strong stems in all shades of blue, mostly with white centers and very long spurs.
Tr. Pkt., 40¢; ¼ oz., \$1.75; Oz., \$6.00.
Our catalog contains a full list of perennial seeds.

Write for your copy.

SOMERSET ROSE NURSERY, INC.
P. O. Box 608 New Brunswick, N. J.

GENERAL LINE OF ORNAMENTALS

LINING-OUT STOCK

FAIRVIEW EVERGREEN NURSERIES
Fairview, Erie Co., Pa.

Hartford, Mich. (gladioli), said, "I believe labor costs will stay about the same or possibly will be a bit higher."

Clifford Emlong, Emlong's Nurseries, Inc., Stevensville, Mich. (retail and catalog nurserymen), stated, "More help seems to be available; more men are being laid off in industrial factories. We seem to be able to find all the labor we need at 60 cents per hour."

John Elzinga, of John M. Elzinga Bulb Farms, Benton Harbor, Mich., reported on the bulb meeting at Lansing, which concluded with a recommendation for voluntary inspection, with reciprocity for interstate movement and compulsory field and storage inspection if the gladiolus bulbs are to be shipped under reciprocal certificate. Recommended tolerance

SHRUBS

In storage; immediate shipment.
Per 10 Per 100

Almond, pink-flowering, 18 to 24 ins.	\$4.00	\$35.00
Althaea, pink, 18 to 24 ins.	2.50	22.00
Barberry, thunbergi, 15 to 18 ins.	2.50	22.00
Crape Myrtle, pink, 18 to 24 ins.	2.50	22.00
Crape Myrtle, red, 18 to 24 ins.	2.50	22.00
Crape Myrtle, purple, 18 to 24 ins.	2.50	22.00
Crape Myrtle, white, 18 to 24 ins.	2.50	22.00
Deutzia Gracilis, 9 to 12 ins.	1.90	16.00
Deutzia Pride of Rochester, 12 to 18 ins.	1.90	16.00
Forsythia fortunei, 12 to 18 ins.	1.90	16.00
Honeysuckle fragrantissima, 12 to 18 ins.	1.90	16.00
Honeysuckle, tatarica rubra, var. zabeli, 12 to 18 ins.	1.90	16.00
Philadelphus coronarius, 12 to 18 ins.	1.90	16.00
Prunus besseyi, 18 to 24 ins.	2.50	22.00
Prunus besseyi, 12 to 18 ins.	1.90	16.00
Spiraea vanhouttei, 2 to 3 ft.	2.90	25.00
Spiraea vanhouttei, 18 to 24 ins.	2.10	18.00
Vitex macrophylla, 2 to 3 ft.	4.50	40.00
Vitex macrophylla, 18 to 24 ins.	3.50	30.00
Vitex macrophylla, 12 to 18 ins.	2.50	22.00
Weigela rosea, 12 to 18 ins.	1.90	16.00
Salix irrorata (Blue Stem Willow), 3 to 4 ft.	4.00	35.00
Salix irrorata (Blue Stem Willow), 2 to 3 ft.	3.50	30.00
Salix irrorata (Blue Stem Willow), 18 to 24 ins.	2.50	22.00
Salix discolor (Pussy Willow), 3 to 4 ft.	4.50	40.00
Salix discolor (Pussy Willow), 2 to 3 ft.	3.50	30.00
Salix discolor (Pussy Willow), 18 to 24 ins.	2.40	20.00
Salix discolor (Pussy Willow), 12 to 18 ins.	1.40	12.00

THE WILLIS NURSERY CO.

Ottawa, Kansas

SCARFF'S Nursery

Berry Plants



Over 50 years' experience with small fruit plants, and we now offer the best varieties for home and commercial planting.

RASPBERRY PLANTS

	Per 100	Per 1000
Bristol (New Black).....	\$5.00	\$40.00
Chief (Early Red)	5.50	45.00
2-yr. plants	7.50	65.00
Cumberland (Black)	4.50	35.00
Indian Summer (Everb. Red)	6.50	55.00
2-yr. plants	8.50	75.00
Latham (Red)	6.00	50.00
2-yr. plants	7.50	65.00
Logan (Best Early Black).....	4.50	35.00
Newburgh (Red)	6.00	50.00
2-yr. plants	8.00	70.00
St. Regis (Everb. Red)	5.50	45.00
2-yr. plants	7.00	60.00
Sunrise (Early Red).....	6.00	50.00
2-yr. plants	7.50	65.00
Taylor (Midseason Red)	6.00	50.00

BLACKBERRY PLANTS

	Per 100	Per 1000
Alfred, 1-yr.	\$4.50	\$35.00
Brainerd, 1-yr.	6.00	50.00
2-yr.	8.00	70.00
Eldorado, 1-yr.	4.50	35.00
2-yr.	7.00	60.00
Iceberg (White Blackberry)		
1-yr.	6.00	50.00

BOYSENBERRIES—YOUNG-BERRIES—NECTAR-BERRIES

	Per 100	Per 1000
Boysenberry Tips	\$ 6.50	\$35.00
2-yr.	10.00	80.00
Boysenberry, Thornless,		
Tips	6.50	55.00
Youngberry Tips	5.50	45.00
2-yr.	7.50	65.00
Youngberry, Thornless,		
Tips	6.00	50.00



Boysenberry

BLUEBERRIES

Jersey, Rubel and Rancocas Varieties		
	10	1000
In lots of.....		
Rooted Cuttings	\$0.35	\$0.25
6 to 12 ins.....	.75	.60
12 to 18 ins.....	.85	.70
18 to 24 ins.....	1.00	.90

GRAPEVINES

	Per 100	Per 1000
Caco, 2-yr., No. 1.....	\$17.50	\$160.00
1-yr., No. 1.....	13.50	120.00
Catawba, 2-yr., No. 1.....	15.00	120.00
2-yr., No. 2.....	11.00	90.00
Concord, 2-yr., No. 1.....	12.00	100.00
2-yr., No. 2.....	10.00	80.00
Concord Seedless, 1-yr.....	40.00	
Diamond, 1-yr., No. 1.....	11.00	90.00
Fredonia, 2-yr., No. 1.....	14.00	120.00
2-yr., No. 2.....	12.00	100.00
Niagara, 2-yr., No. 1.....	14.00	120.00
1-yr., No. 1.....	12.00	100.00

CURRENTS

	Per 100	Per 1000
Red Cross, 2-1.....	\$14.00	\$120.00
Red Lake, 2-1.....	18.00	160.00
2-2	14.00	120.00
Wildor, 2-1	14.00	120.00
2-2	10.00	80.00

GOOSEBERRIES

	Per 100
Downing, 2-1	\$35.00
2-2	25.00

RHUBARB—HORSE-RADISH—SAGE

	Per 100	Per 1000
Linneaus Rhubarb		
3/4 to 4-in.....	\$ 4.00	\$ 30.00
4 to 1-in.....	5.00	40.00
MacDonald Rhubarb		
(New Red Strain)	27.50	250.00
Horse-radish, Mullner		
Kren-Bohemian, heavy	2.50	15.00
4 to 6-in. cuttings.....		
Horse-radish, (Whole	4.00	35.00
Roots)		
Sage, English Broad-leaved,	12.00	100.00
2-yr., field-grown	7.50	65.00
Smaller 1-yr.		

ORNAMENTALS

	Per 100
Cornus Mas (Cornelian Cherry),	
18 to 24 ins.....	\$20.00
2 to 3 ft.....	25.00
Euonymus Radicans Carrieri	
1-yr., field-gr., 10 to 16 ins.....	20.00
Forsythia Spectabilis, 18 to 24 ins.....	15.00
2 to 3 ft.....	20.00
Ibolum Privet, 2-yr., 10 to 16 ins.....	60.00
2-yr., 12 to 18 ins.....	75.00
2-yr., 18 to 24 ins.....	80.00
Salix Caprea. (Fr. Pussy Willow),	
18 to 24 ins.....	15.00
2 to 3 ft.....	20.00

VINES

	Per 100
Euonymus Coloratus,	
2-yr., Medium	\$15.00
3-yr., No. 1.....	35.00
Hedera Helix (English Ivy),	
Evergreen	
2-in. plant bands.....	17.50
2 1/4-in. plant bands.....	25.00
Hall's Honeysuckle, 2-yr.....	17.50
Strong 1-yr.	12.00

CHERRY TREES

	Each	Per 100
August Supreme,		
11/16-in. cal.	\$1.00	\$90.00
Bush Cherries		
(Budded Varieties)		
Brooks—Blk. Beauty—		
Mandan Golden, strong, .....	.90	75.00
branched, 2 to 3 ft.....		

MISCELLANEOUS

	Per 100
Mulberry, New American, 4 to 6 ft. \$	\$ 90.00
8 to 6 ft.....	100.00

— Send for Complete Trade List — Also Retail Catalog —

W. N. SCARFF'S SONS,

New Carlisle, Ohio

was three per cent for all diseases and three per cent for scab.

John Suntheimer, of Fox Nursery, Elkhart, Ind., showed a shipment of peach trees, roses and shrubs received from a "bargain" advertisement. Of the ten peach trees received, five showed failure of the bud to "take," rendering them only seedlings; one showed nematode galls. More research work is to be done on this problem. Rex Westhauser was named to bring in resolutions and further reports from qualified state inspectors.

Comment was made on firms selling nursery stock by means of radio advertising, whose theme now is "Throw away your catalogs. Prices have come down so much they are out of date; so we can offer the following bargains."

Henry Weller, of Weller Nurseries Co., Holland, Mich., accepted full responsibility for the tulips, the entertainment, the meal and even the pulchritude for the annual ladies' night to be held at Holland, Mich., May 23. Mail-order nurserymen from far and near have signified their intentions of flying to this superb finale of the winter meetings.

I. J. Mathews.

GEORGIA QUARANTINED FOR WHITE-FRINGED BEETLE.

On the basis of facts developed and evidence submitted at a hearing held last September by the United States Department of Agriculture to consider extending quarantine 72, on white-fringed beetles, the state of Georgia has been placed under quarantine, effective March 15, while action with respect to the state of South Carolina is being held pending further investigation.

Six states, Alabama, Florida, Georgia, Louisiana, Mississippi and North Carolina, are now quarantined to prevent the spread of infestations of white-fringed beetles. The quarantine forbids the interstate movement from infected areas of live white-fringed beetles in any stage of development; soil independently or in connection with nursery stock; nursery stock and other stipulated plants or plant products, and other articles, such as compost, leaf mold, manure and forest products.

Although facts submitted at the hearing demonstrated that white-fringed beetles were well established in many localities within the state of Georgia, only one infestation was known to occur in a restricted area in the state of South Carolina. This involved a small plot in which stock from an infested nursery was planted.

SURPLUS ITEMS

Available for Immediate or Later Shipment

	Per 100
500 Concord Seedless Grapes, 1-yr., No. 1.....	\$ 40.00
3000 Paul's Scarlet Climbing Rose, No. 1.....	40.00
5000 Red-leaved Barberry, 12 to 15 ins.....	18.00
2000 Vitex Macrophylla.....	18.00
2000 Forsythia Fortunei.....	20.00
1000 Morrow's Honeysuckle.....	20.00
500 Laburnum Vossii, 4 to 5 ft.....	125.00
1000 Jacotte Climbing Rose, No. 1.....	50.00
1000 Staechelin Climbing Rose, No. 1.....	40.00
500 Climbing American Beauty Rose, No. 1.....	50.00
1000 Spiraea Van Houtte, 3 to 4 ft.....	25.00

No. 1 at \$2.25 each No. 1 1/2 at \$2.00 each

Sister Therese, Tree Rose.....	100	100
Talisman, Tree Rose.....	300	100
Los Angeles, Tree Rose.....	300	100
Pres. Hoover, Tree Rose.....	100	100
E. P. Thom, Tree Rose.....	200	100
McGredy's Yellow, Tree Rose.....	400	150
Hadley, Tree Rose.....	300	200
Edith Nellie Perkins, Tree Rose.....	100	100
Poinsettia, Tree Rose.....	150	250
E. G. Hill, Tree Rose.....	150	250
Southport, Tree Rose.....	200	175
Picture, Tree Rose.....	150	
Red Radiance, Tree Rose.....	300	

No. 1 at \$3.00 each

Show Girl, Tree Rose (Patent No. 646).....	50
Charlotte Armstrong, Tree Rose (Patent No. 455).....	100
K. T. Marshall, Tree Rose (Patent No. 607).....	50

Ea.

2000 Bartlett Standard Pears, 9/16-in.....	\$0.65
200 Flemish Beauty, 11/16-in.....	1.00

Per 10 Per 100

1000 Maple Norway, 8 to 10 ft.....	\$17.50	\$165.00
------------------------------------	---------	----------

Send your want list on Chrysanthemums, Gladioli, Phlox, Ground Covers and Miscellaneous Perennials.

Above items are offered subject to prior sale.

F.O.B. Newark, N. Y.

Boxing at extra cost. Quantities over 25 are offered at the 100 rate.

C. W. STUART & CO., INC.
Newark (Wayne County), New York

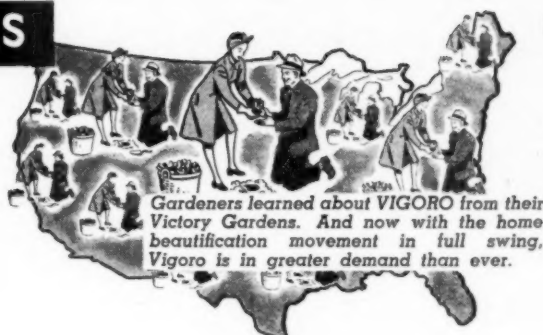
SURPLUS LINING-OUT STOCK

	Per 100	Per 1000
3000 Aralia Pentaphylla, 12 to 18 ins.....	\$ 4.50	\$40.00
900 Aralia Pentaphylla, 18 to 24 ins.....	5.00	45.00
1700 Red Barberry, sdgls., 3 to 6 ins.....	6.00	55.00
1400 Red Barberry, sdgls., 6 to 9 ins.....	8.50	75.00
2500 Fontanesia fortunei, 8 to 12 ins.....	4.50	40.00
900 Fontanesia fortunei, 18 to 24 ins.....	6.00	55.00
1300 Forsythia Spectabilis, 8 to 12 ins.....	3.50	30.00
2400 Forsythia Spectabilis, 12 to 18 ins.....	4.50	40.00
1650 Forsythia Spectabilis, 18 to 24 ins.....	5.50	50.00
4500 Hydrangea P. G., layers.....	13.00	125.00
2000 Kerria Japonica Fl. Pl., pots.....	8.00	75.00
11,000 Privet, Amur River North, 12 to 18 ins.....	5.00	45.00
5000 Rhamnus Chadwicki, 12 to 18 ins.....	7.50	70.00
2000 Spiraea Vanhouttei, 12 to 18 ins.....	5.50	50.00
2500 Viburnum Burkwoodi, pots.....	20.00	175.00
1400 Weigela Abel Carriere, 6 to 12 ins.....	5.50	50.00

All material except pots can be shipped at once.

Write for complete price lists.

BURTON'S HILLTOP NURSERIES
Box 57
Cassstown, O.

THIS**+ THIS**

The greatest advertising campaign in the history of VIGORO is now appearing in *Life*, *House and Garden*, *American Home*, *House Beautiful*, *Better Homes and Gardens*, *American Weekly*, etc. . . . is reaching millions of gardeners regularly.

= THE GREATEST VIGORO SALES IN HISTORY!

... and for aggressive dealers, it means the greatest VIGORO profits in history!

Count on it! This year is the year for garden supply dealers to cash in on Vigoro. Backed by an advertising campaign of superpower, Vigoro will be more in demand than ever before.

To get your full share of these Vigoro sales, display Vigoro in your windows and in your garden supply department. Advertise Vigoro in your local newspapers. Send out colorful Vigoro folders and put up the attractive Vigoro display material. Above all, tell your customers to feed Vigoro regularly to lawns, flowers, trees, shrubs and vegetables. It's the regular feedings that mean repeat sales for you.

Write today if you haven't already—for the Vigoro display material available without charge.

SWIFT & COMPANY
Plant Food Division

U. S. Yards

Chicago 9, Ill.



MAKE EXTRA PROFITS . . .
SELL EndoWeed and EndoPest I

The stock has been treated to render it entirely free of white-fringed beetles, according to state and federal inspection officials, and the infested plot, which will be thoroughly treated with insecticides, is being maintained under their surveillance to prevent the movement of soil or stock which might spread the beetle. Further inspection is necessary to determine if infestations occur on adjacent lands, and as articles from infested states have been transported into several other localities in South Carolina, there is a probability that infestations may be disclosed when seasonal conditions will permit further inspection.

BUXTON WHITE IN NEWS.

A biographical sketch and portrait of Buxton White, proprietor of Buxton White Seed Co., Elizabeth City, N. C., were featured in a recent edition of State College News, alumni bulletin of North Carolina State College. The article traces his career from his graduation from state college in 1915 with a B. S. degree in agriculture to his founding of the seed company in 1920. He is currently engaged in the conversion of a defunct golf links into a nursery, residence and farm.

VERMONT-GROWN

Specimen-size

AZALEAS RHODODENDRONS

Collected

HEMLOCKS

Lining-out sizes up to 30 ins.

B&B sizes up to 5 ft.

FRANK L. ABBOTT

P.O. Box 522 Saxtons River, Vt.

COLLECTED LINING-OUT STOCK

	Per 100	Per 1000
<i>Thuja occidentalis</i> , 6 to 12 ins., bushy . . .	\$3.00	\$25.00
<i>Thuja occidentalis</i> , 12 to 18 ins., bushy . . .	5.00	40.00
<i>Tsuga canadensis</i> , 4 to 8 ins.,	2.50	15.00
<i>Tsuga canadensis</i> , 8 to 12 ins., bushy . . .	3.00	25.00
<i>Ilex verticillata</i> , 1 to 2 ft., sdgls.	3.00	25.00
<i>Viburnum cassinoides</i> , 12 to 18 ins., sdgls. . . .	5.00	40.00
<i>Viburnum lentago</i> , 12 to 18 ins., sdgls. . . .	6.00	50.00

Catalog listing Hardy Ferns, Perennials, and Lining-out Evergreens, Trees and Shrubs sent on request.

Charles H. Williams Nurseries
Box 223 Exeter, N. H.

THUJA GLOBOSA

1000 18 to 24 inches, \$1.50 each

These are fine evergreens,
well developed and of good
color.

THE WESTMINSTER NURSERIES
Westminster, Md.

KOSTER NURSERY Bridgeton, N. J.

SERVICE

We believe that SERVICE should rank first, and our aim is to serve YOU promptly and satisfactorily. If we can help you in any way, write us. We are always busy but never too busy to answer your letter.

OBITUARY.

C. F. Langdon.

Charles Frederick Langdon, head of the firm of Blackmore & Langdon, Bath, England, died suddenly March 2, at the age of 79. Growers of delphiniums are well acquainted with the famous hybrids introduced by this firm, which he started in 1891 with the late J. B. Blackmore. Their work with begonias was likewise outstanding.

Mr. Langdon played a leading part in the formation of the British Delphinium Society, of which he was chairman until compelled by ill health to relinquish the office in 1944. He received the Victoria medal of honor a few years ago from the Royal Horticultural Society, the highest recognition bestowed by that organization.

COVER ILLUSTRATION.

Myrica Pensylvanica.

The northern bayberry, *Myrica pensylvanica*, is an upright spreading shrub growing to about eight to ten feet in height at full maturity. More often one finds it ranging in height from four to six feet. It suckers freely and makes broad shrubby masses. It is native from Newfoundland to western New York and Maryland, chiefly along the seashore. It has become naturalized in other areas.

The semievergreen leaves, usually about two to three inches long, are toothed toward the apex and borne alternately on the stem. They are oblong-obovate in shape, dull green above and with resinous dots beneath. The leaves hang late in the fall, with little effective fall foliage color. *Myrica cerifera*, the wax myrtle, is sometimes confused with the northern bayberry, but the wax myrtle has narrower, more pointed leaves.

The flowers are dioecious, with male and female flowers on separate plants, are produced in late March or April and are not effective ornamentally. The fruits are small, grayish, waxy and produced in clusters along the stems. The fruits are attractive during the winter after the leaves fall. The wax coating is used in the manufacture of bayberry candles.

The northern bayberry will grow in almost any type of soil, doing well in dry, sterile soils and sandy or peaty soils. An acid soil is preferred. Because it stands salt spray, it is a good seashore shrub. It transplants with difficulty, usually being moved with a ball of soil.

Propagation is often by seeds, it

SPRING 1947

We do not have enough space in our beds to hold the amount of stock we are propagating and so we are offering the following well rooted cuttings for sale any time after May 1.

		Per 100
1000	<i>Juniper. Andorra (Compacta)</i> , 6 to 8 ins.....	\$12.00
2000	<i>Juniper. Irish Fastigiata</i> , 6 to 8 ins.....	10.00
1000	<i>Juniper. Prostrata</i> , 6 to 8 ins.....	10.00
2000	<i>Taxus Andersoni</i> , 6 to 8 ins.....	12.00
20,000	<i>Taxus Capitata</i> , tip cuttings, 4 to 6 ins.....	15.00
1000	<i>Taxus Mooni</i> , 4 to 8 ins.....	15.00
1000	<i>Taxus Wellesleyana</i> , 4 to 8 ins.....	12.00
10,000	<i>Taxus Browni</i> , 4 to 6 ins.....	15.00
1000	<i>Taxus Thayerae</i> , 4 to 8 ins.....	12.00
2000	<i>Taxus Cuspidata</i> , 4 to 8 ins.....	10.00
2000	<i>Thuja Pyramidalis</i> , 4 to 6 ins.....	10.00
1000	<i>Thuja Woodwardi</i> , 4 to 6 ins.....	10.00
500	<i>Thuja Douglas Golden</i> , 4 to 6 ins.....	10.00
1000	<i>Thuja Siberian</i> , 4 to 6 ins.....	10.00
20,000	<i>Azalea Mollis</i> , T, flats, 1 to 3 ins.....	5.00

POTTED LINERS (can ship now)

5000	<i>Azalea Mollis</i> , TT, 3-in. pots, 2-yr., 3 to 5 ins.....	20.00
100	<i>Juniper. Depressa Aurea</i> , 2 1/4-in. pots, 1-yr., 6 to 8 ins.....	20.00
1000	<i>Juniper. Prostrata</i> , 2 1/4-in. pots, 1-yr., 6 to 8 ins.....	20.00
1000	<i>Juniper. Irish Fastigiata</i> , 2 1/4-in. pots, 1-yr., 6 to 8 ins.....	20.00
2000	<i>Taxus Hatfieldi</i> , No. 24, 2 1/4-in. pots, 1-yr., 4 to 8 ins.....	25.00
2000	<i>Taxus Browni</i> , 2 1/4-in. pots, 1-yr., 4 to 8 ins.....	25.00
200	<i>Taxus Mooni</i> , 2 1/4-in. pots, 1-yr., 4 to 8 ins.....	25.00
10,000	<i>Taxus Cuspidata</i> , 2 1/4-in. pots, 1-yr., 4 to 8 ins.....	20.00
2000	<i>Taxus Hicksi</i> , 2 1/4-in. pots, 1-yr., 6 to 8 ins.....	20.00
3000	<i>Taxus Andersoni</i> , 2 1/4-in. pots, 1-yr., 6 to 8 ins.....	20.00
1000	<i>Thuja Woodwardi</i> , 2 1/4-in. pots, 1-yr., 4 to 6 ins.....	20.00
1000	<i>Thuja Siberian</i> , 2 1/4-in. pots, 1-yr., 4 to 6 ins.....	20.00

Terms: Cash. Free packing when cash accompanies order.

Beetle certified.

HEASLEY'S NURSERIES

Freeport Road

Butler, Pa.



SPECIAL OFFERINGS

Very complete range of sizes in quality plants of

Platanus orientalis—European Plane Tree
Platanus occidentalis—American Plane Tree
Liquidambar—Sweet Gum
Quercus alba—White Oak
Quercus coccinea—Scarlet Oak
Quercus rubra—Red Oak
Ginkgo biloba—Maidenhair Tree
Gleditsia—Common Honey Locust
Rhus canadensis, *copallina*, *glabra* and *typhina*
Rosa wichuraiana—Wichura Rose

We also have a very large general list of Ornamental Stock.

Ask for new Wholesale Price List.

Send us your Want List.

PRINCETON NURSERIES
PRINCETON, N. J.

STRAWBERRY AND OTHER SMALL FRUIT PLANTS

STRAWBERRY PLANTS

	Per 25	Per 100	Per 250	Per 1000
Big Joe, Blakemore, Dunlap, Massey, Maytime, Missionary, Robinson, Suwannee, Temple	\$0.35	\$1.15	\$2.00	\$7.00
Catskill, Chesapeake, Dorsett, Fairfax, Fairpeake, Gandy, Klondike, Midland, Premier, Redstar, Starbright	.40	1.25	2.25	8.00
Mastodon, Gemzeta, Lucky Strike, Evb.	.65	2.00	4.25	15.00
Streamliner, Evb.	1.00	3.25	7.00	25.00

No extra charge is made for the package or packing on Strawberry plant orders. Prices quoted are for delivery as wanted during the Spring 1947 shipping season, ending about June 1, and apply as follows:

- 25 to 75 plants of one variety at the 25 rate.
- 100 to 225 plants of one variety at the 100 rate.
- 250 to 475 plants of one variety at the 250 rate.
- 500 plants or more of one variety at the 1000 rate.

GRAPEVINES

Our Grapes have heavy fibrous root systems, with many lengthy canes at the top. Write for prices on large numbers. Concord (blue), Fredonia (black). Each Per 10 Per 100

Niagara (white):				
2-year, No. 1 grade	\$0.25	\$1.75	\$14.00	
1-year, No. 1 grade	.20	1.50	10.00	
Catawba (mahogany), Moore's Diamond (white), Moore's Early (black), Portland (white), Worden (black):				
2-year, No. 1 grade	.30	2.25	17.00	
1-year, No. 1 grade	.25	1.75	12.00	
Agawam (red), Brighton (red), Caco (red), Delaware (red):				
2-year, No. 1 grade	.35	2.50	20.00	
1-year, No. 1 grade	.30	2.25	15.00	

ASPARAGUS ROOTS

	Per 25	Per 100	Per 250	Per 1000
Varieties: Paradise and Mary Washington				
3-year, No. 1 grade	\$1.25	\$4.00	\$8.75	\$30.00
2-year, No. 1 grade	.75	2.50	5.25	18.00
1-year, No. 1 grade	.60	2.00	4.00	11.00

BUNTINGS' NURSERIES, INC.

RASPBERRIES

	Per 10	Per 25	Per 100	Per 1000
Cumberland, No. 1 tips	\$1.00	\$2.00	\$6.00	\$50.00
Indian Summer, No. 1 suckers	1.00	2.00	7.00	60.00
Latham, No. 1 suckers	1.00	2.00	6.00	50.00
Newburgh, No. 1 suckers	1.00	2.00	7.00	60.00
St. Regis, No. 1 suckers	1.00	2.00	6.00	50.00
Sunrise, No. 1 suckers	1.00	2.00	7.00	60.00

BLACKBERRIES

	Per 10	Per 25	Per 100	Per 1000
Blowers, No. 1 R. C.	\$1.00	\$2.00	\$7.00	\$60.00
Alfred, No. 1 R. C.	1.00	2.00	7.00	60.00
Eldorado, No. 1 R. C.	1.00	2.00	7.00	60.00

BOYSENBERRY PLANTS

	Per 10	Per 25	Per 100	Per 1000
1-year, No. 1 plants	\$1.00	\$2.00	\$6.00	\$50.00

THORNLESS BOYSENBERRY

	Per 10	Per 25	Per 100	Per 1000
1-year, No. 1 plants	\$1.00	\$2.00	\$7.00	\$60.00

DEWBERRIES

	Per 10	Per 25	Per 100	Per 1000
Lucretia, No. 1 tips	\$0.60	\$1.25	\$4.00	\$30.00

RHUBARB ROOTS

	Per 25	Per 100	Per 250	Per 1000
Varieties: Victoria and Myatts Linnaeus				
2-inch and up, forcing grade	\$3.50	\$10.00	\$24.00	\$90.00
1 1/2 to 2-inch caliper	3.00	8.50	20.00	75.00
1 to 1 1/2-inch caliper	2.50	6.00	14.00	50.00
5/8 to 1-inch caliper	2.00	5.00	11.00	40.00
1/2 to 5/8-inch caliper	1.75	4.00	9.00	30.00

MACDONALD RHUBARB

	Each	Per 10	Per 25	Per 100
No. 1 divisions	\$0.60	\$5.00	\$11.00	\$40.00

Free packing for cash with order.

Our Spring 1947 Wholesale List offers a complete line of nursery stock. If you did not receive a copy, write us today. When requesting wholesale rates, please use your printed stationery.

Box 3

Selbyville, Del.

being necessary to remove the waxy coat before stratification. Softwood cuttings and suckers are also used as means of propagation.

The greatest value of this plant lies in its ability to thrive in poor, dry soil and along the seashore. This makes it useful as a bank or border shrub. It can be combined with some of the broad-leaved evergreens with good effect. L. C. C.

GEORGE E. MILLBYER, Buffalo, N. Y., opened an outdoor retail salesyard April 1. Facilities include a storage shed and greenhouse.

BEECHER CASSON, JR., is starting his own nursery and landscape business, Casson Nursery & Landscape Co., at Lewiston, Me.

A SECOND retail outlet, with a bulb and ornamental nursery, at Vero Beach, Fla., has been established by Mr. and Mrs. David P. Sawyer, of Sunshine Florists, Cleveland Heights, O.

GROUND COVER PLANTS

	Per 100	Per 1000
Fachysandra terminalis		
Assorted field-grown	\$ 6.00	\$ 50.00
Vinca Minor		
2-year field-grown	8.50	65.00
2 1/2-in. pot-grown	10.00	85.00
Honeysuckle (Lonicera japonica halliana)		
1-year field-grown	8.00	60.00
2-year field-grown	10.00	90.00
3-year field-grown	12.00	100.00
2 1/2-in. pot-grown	10.00	90.00

HUGH B. BARCLAY
Narberth, Pa.

EVERGREENS Rooted Cuttings

Send for quotations

GREENBROOK
NURSERIES, Inc.

Bound Brook, N. J.

TAXUS CUSPIDATA (spreading)

2-yr. bed-grown, 9 to 12 ins.
\$25.00 per 100; \$225.00 per 1000.

LILACS, French Hyb.

1-yr., best varieties.
\$25.00 per 100; \$225.00 per 1000.

DEERFIELD NURSERIES

Deerfield Street P.O., N. J.

HARDY NATIVE EVERGREENS

Collected Stock
Canadian Hemlock, American
Arboretum, Balsam Fir

	Per 1000
3 to 6 ins.	\$ 8.00
6 to 9 ins.	12.00
9 to 12 ins.	25.00
12 to 18 ins.	35.00

Cash please.

R. M. COLE

Box 37

Charlotte, Vt.

NEWS ON WALL STREET.

The increased volume of sales and the high prices of cut flowers and of rose plants have attracted enough attention so that the Wall Street Journal not long ago ran a front-page article on the status of the cut flower market in New York city and in the last week in March a front-page article of more than a column was contributed by the Los Angeles staff correspondent to that newspaper on the "Rosebush Boom."

"California rose growers believe they've got a bull market by the thorns," began the article. "Many are doubling production. Most of them now have more business than they can handle."

The article went on to describe the demand as one pent-up during the war years and only temporary. Cautious growers were quoted as saying that "the boom will be a bust in 1949," since it takes two years to harvest a crop of field rosebushes and by that time the market could be flooded.

Much of the article refers to patented roses, their development and retail prices, well known to nurserymen.

The basis for the figures given in the article does not appear, but they indicate the terms in dollars that interest Wall Street.

Says the article, "Rosebush growers and breeders from coast to coast are preparing to reap a \$30,000,000 harvest in 1947. California growers will snip a \$10,000,000 portion; Oregon, Texas, Pennsylvania and New Jersey rose men will split the \$20,000,000 business this year."

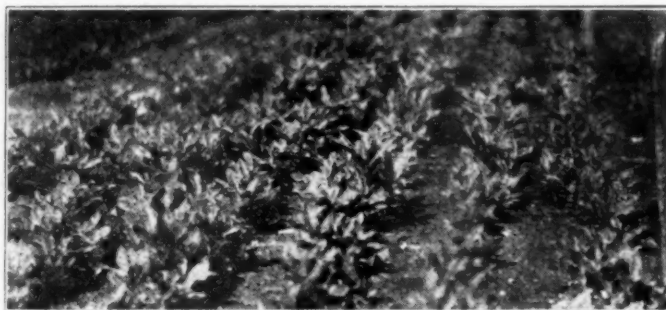
Optimistic predictions are of expansion to an annual gross of about \$100,000,000 in another ten years.

"Before the war," states the article, "national production of field roses was between 25,000,000 and 30,000,000," which is in accordance with trade knowledge. The article goes on, "It's 30,000,000 to 35,000,000 now," figures of which one may be skeptical.

Two patented roses introduced by the Armstrong Nurseries, Ontario, Cal., come in for special mention, with an estimate that 195,000 Charlotte Armstrong bushes have been sold since introduction in 1941 and grossed \$295,000, and that 110,000 Mirandy bushes have been sold since 1945 and grossed \$225,000. Sales are said to be still climbing on these two varieties, nearly 200,000 Charlotte Armstrong having been budded by growers last year for sale next year, while 150,000 Mirandy were budded.

LINING-OUT STOCK TRANSPLANTS

100 rate, ea.	100 rate ea.
<i>Azalea mollis</i> , beds .....\$0.10	<i>Euonymus vegetus</i> , X, 3 to 6 ins...\$0.10
(1000 rate, \$0.09; 200 at 1000 rate.)	<i>Philadelphus coronarius</i> , S., 6 to 12 ins..... .06
<i>Azalea kaempferi</i> , X, beds..... .15	<i>Paulownia tomentosa</i> , S..... .09
<i>Euonymus carrierei</i> , X, 4 to 8 ins.. .10	<i>Rhododendron hybrid</i> , X..... .14
<i>Euonymus coloratus</i> , X, 4 to 8 ins.. .10	<i>Rhododendron hybrid</i> , XXX, 4 to 6 ins..... .75
<i>Euonymus fortunei</i> , X, 4 to 8 ins.. .10	<i>Vitex agnuscastus</i> , S., 6 to 12 ins..... .08
<i>Euonymus europaeus</i> , X, 6 to 12 ins..... .08	
<i>Euonymus patens</i> , X, 3 to 6 ins.... .10	



Azalea Mollis Bed Transplants

ROOTED CUTTINGS (Ready, May-June)

100 rate, each	100 rate, each
<i>Andorra Juniper</i> , 4 to 8 ins.....\$0.10	<i>Retinospora pisifera aurea</i> , 4 to 8 ins.....\$0.12
<i>Chamaecyparis allumii</i> , 4 to 8 ins.. .12	<i>Retinospora filifera aurea</i> , 4 to 8 ins..... .12
<i>Ilex bullata</i> , 2 to 4 ins..... .10	<i>Pieris japonica</i> , 2 to 4 ins..... .14
<i>Ilex glabra</i> , 2 to 4 ins..... .10	<i>Leucothoe catesbaei</i> , 2 to 4 ins.. .14
<i>Ilex rotundifolia</i> , 2 to 4 ins..... .11	<i>Globe arbovitae</i> , 2 to 4 ins..... .10
<i>Ilex crenata</i> , 2 to 4 ins..... .10	<i>Taxus brevifolia</i> , 2 to 4 ins..... .12
<i>Irish Juniper</i> , 4 to 8 ins..... .10	<i>Taxus cuspidata</i> , 4 to 8 ins..... .11
<i>Juniper stricta</i> , 4 to 8 ins..... .10	<i>Taxus capitata</i> , 4 to 8 ins..... .14
<i>Juniper pfitzeriana</i> , 4 to 8 ins..... .12	
<i>Geo. Peabody Arborvitae</i> , 4 to 8 ins.. .14	

TERMS: Cash With Order; No C. O. D. No packing charge on Lining-out Stock. Shipped via express only. All stock State and Federal inspected. Beetle certificate furnished on request.

PALLACK BROS. NURSERIES, INC.

R. F. D. No. 1

(31 MI. N. Pittsburgh on Highway Route 19)

Harmony, Pa.

PEONY L'ESPERANCE

Light pink, medium size, double flower, very early.

A good Memorial day variety.
\$2.40 per 10; \$20.00 per 100; \$150.00 per 1000.

WILLIS NURSERY CO.
Ottawa, Kansas

ORNAMENTAL EVERGREENS

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P. O. Huntington Station, N. Y.

HESS' NURSERIES

Mountain View
New Jersey

Evergreens

Barberry

Privet

Write for wholesale price list.

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Rocky Hill, Conn.

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HEADQUARTERS FOR NATIONALLY ADVERTISED CHEMICALS & INSECTICIDES

STIM-ROOT—contains TWO rooting hormones (single hormone won't work on all plants) producing strongly rooted healthy cuttings.

PLANT-PROD concentrated water-soluble plant food. Save shipping weight, storage space—no filler. Imagine it!—One ounce feeds 25 sq. ft.

PROTEXALL

In one shot—kills most Insect Pests and Fungi—
HIGHLY RECOMMENDED for ROSES

Replacing a shell of garden chemicals, this all-purpose spray or dust has been found to be without equal for Roses. Contains DDT, FERMATE, ROTENONE, SULPHUR. Controls most insects, worms, caterpillars, beetles, aphids, black spot, rust, scale, midge, etc. Harmless to food or ornamental plants.

Supplied both in spray or dust.

Write for discounts and test sample.

SEED-LESS-SET

The famous hormone that produces earlier, larger yield of SEEDLESS TOMATOES, Cucumbers, Peppers, Eggplants, etc. More meat, firmer texture, better flavor and generally larger seedless fruit.

2,4-D DANDYKILL with NITROGEN.

Kills the weeds that kill the lawn and stimulates the grass at same time. Does not injure grass.

2,4-D DANDYKILL CONCENTRATE for pastures, golf courses, etc.

2,4-D IVYKILL

Kills Poison Ivy and other obnoxious Weeds, Shrubs, etc.

Rose FOOD 5-10-5

A complete high-grade organic rose fertilizer. Contains all the necessary elements, scientifically balanced. Over 60 per cent organic. For under glass as well as field-grown plants.

WRITE FOR DISCOUNTS and TEST SAMPLE.

PLANT PRODUCTS offers a complete line of protective and organic chemicals of interest to the nurseryman; above are listed but a few of the leaders.

Send for complete catalog.

PLANT PRODUCTS CORP., Dept. AN, BLUE POINT, N. Y.

TREES FOR NEBRASKA.

For Nebraska residents a list of trees recommended for ornamental shade tree and windbreak planting in various parts of the state has been compiled by a joint committee appointed by G. A. Gritzmacher, president of the Nebraska Nurserymen's Association, and composed of the following: Chet G. Marshall, nurseryman, Arlington; Harvey Williams, nurseryman, Lincoln; Earl G. Maxwell, extension forester, state college of agriculture, Lincoln; Ernest E. Hoppert, horticulturist, college of agriculture; Ernest H. Ferminghaus, park superintendent, Lincoln; Frank Pipal, Omaha city forester, Omaha.

The list is given in tabular style in a 4-page folder. It includes a map of the state by counties, which are divided into five districts. Each species of tree is followed by the numbers of the districts in which it is recommended. In some cases, such as junipers and yews, a note is added to consult nurserymen relative to variety.

NEW facilities of the Hoosier Landscape Service, which has been moved from Elizabethtown, Ind., to West Port, Ind., are a nursery and greenhouse.

RHUBARB ROOTS

	Per 100	Per 1000
MacDonald, red, strong divisions.....	\$25.00	\$200.00
Ruby Red, strong divisions.....	30.00	250.00
Victoria, whole roots		
2-inch and up, extra-heavy.....	10.00	90.00
1½ to 2-inch.....	8.50	75.00
1 to 1½-inch.....	6.00	50.00
5/8 to 1-inch.....	4.50	40.00
½ to 5/8-inch.....	3.00	25.00

THE WILLIS NURSERY CO.

Ottawa, Kansas



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PLANTS THAT PAY THEIR WAY!

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**CORLISS BROS. INC.,
NURSERIES**

307 Reymard St.

Gloucester, Mass.

Industry to Expand

That the relatively young nursery industry can expand and attain new importance in the home and garden-building era to come was pointed out in an address by Frank R. Furbush, of the Meredith Publishing Co., Des Moines, Ia., before the convention of the Iowa Nurserymen's Association at the Hotel Kirkwood, Des Moines, January 10 and 11.

The nursery industry is relatively small, he stated. In 1889 there were 4,500 nurseries with about \$12,000,000 in sales. By 1919 there were 5,000 nurserymen, and sales had increased to over \$20,000,000. In another twenty years came a sharp increase in nurseries to 8,000 and sales volume increased to \$31,000,000.

Mr. Furbush pointed out that the war put hoes into the hands of men whose only callouses before were made by golf clubs. It brought to industry a sharp increase in sales volume under trying shortages of manpower and materials. It put a record spending power in the hands of the public. Disposable income, that part remaining after taxes that can be spent for food, clothing, etc., was shown on a chart for the years 1929-1942. Sales of "flowers, seeds and potted plants" followed the line rather closely, but dropped more rapidly in a depression and increased more rapidly than income in times of prosperity. Certain industries, such as food, gasoline and cosmetics, are more "depression-proof" than the nursery business. Residential building and sales of durable goods, such as refrigerators and ranges, are subject to wider swings in our business cycles.

He stated that the outlook for the next few years is favorable to a high level of disposable income, with an intermediate recession during 1947 and a return to lower prices. He called attention to a significant capital investment and a high labor cost in our industry. With sixty million jobs and a high disposable income, there has been a sharp increase in labor cost, accompanied by reduced efficiency in the labor we can hire.

He recommended that before making any major expansion we know our break-even point. This is the minimum amount of sales to break even. We would also want to know that our sales volume, investment and profit-making ability were well balanced.

Better Homes and Gardens magazine made a survey of its subscribers who had the income and type of living to garden if they wanted to

do so. They were asked, "What gardening subjects are of the most interest to you?" Following are the percentages who expressed interest in the subject indicated: Vegetables, 59; perennials, 51; roses, 48; diseases and pests, 45; flower arrangements, 44; lawns, 41; planning yards, 41; shrubs, 39; soils and plant foods, 38; annuals, 36; bulbs, 36; transplanting, 30; border planting, 29; pruning, 25; evergreens, 22; trees, 21; indoor plants, 19; rock plants, pool, 18; fruit and berries, 17; garden furniture, 16; tools, equipment, 14; vines, 12; foundation planting, 11; home greenhouses, 7.

The war probably accounted for the high position of vegetable gardening and a lack of building for the low position of foundation plantings. Wide differences between the experienced and inexperienced on subjects such as pruning, soils, plant food, diseases and pests, occurred. In roses and lawns there is little difference between the expert and the amateur. Such plantings are usually of broad interest to anyone interested in gardening.

In a survey of the nation's women asking for the four subjects in which they had the greatest reading interest, seventeen per cent named gardening. Gardening interest is greater in older women, among women living in prosperous homes, among married women and homeowners.

Among the families planning on building new homes, there is a distinct desire to live beyond the four walls and to carry their living habits into the yard. A lounge area and an eating and game area are wanted. There is intense interest in flowers, with nine out of ten planning a flower garden. Vegetable gardens interest four out of ten, and most of these are in the suburbs. There is a marked trend to build in suburbs and the open country with lots twice as large as those formerly used.

Mr. Furbush concluded: "Millions will be spent by other industries to insure that they get their share of the consumer's dollar, and it concerns me deeply that the nursery industry has not yet devised means for meeting this type of competition. To be fully satisfied with the new home at its completion, we feel that the cost of the home, its furnishings and its landscaping should be budgeted before any contract is let. Even in the

ROSES — LAST CALL FOR IMMEDIATE SHIPMENT

We offer, subject to prior sale, 2-yr. field-grown ROSES budded on Japonica Multiflora.

Less than 100 Lots: No. 1, 55c; No. 1½, 45c; No. 2, 35c

100 Lots and over: No. 1, 50c; No. 1½c, 40c; No. 2, 30c

THE FOLLOWING VARIETIES IN ALL GRADES:

Red Radiance

Pink Radiance

F. K. Druschki

POLYANTHAS—in all grades.

Miss Edith Cavell

Ideal

Orleans

Golden Salmon

Katharina Zeimet

RUGOSAS—in all grades.

F. J. Grootendorst

Pink Grootendorst

CLIMBERS—in all grades.

Paul's Scarlet

Primrose

Jacotte

ORDER NOW — IMMEDIATE SHIPMENT

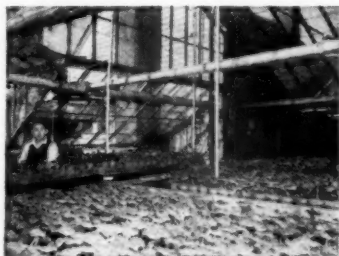
OZARKS PLANT FARMS, INC.
SPRINGFIELD, MISSOURI

Nurseries Too, PROFIT by MODERN HANDLING METHODS



Loading shrubs by Rapid-Wheel Conveyor at the Lindley Nurseries, Inc., Greensboro, N. C. This installation has effected a considerable savings in both labor and costs.

Plants, potted in one end of a greenhouse, are placed on trays which travel over Rapid-Wheel Conveyor to concrete flats in another section. This has saved much hard work and extra handling of former trucking methods.



Faster handling of plants and shrubs on smooth rolling Rapid-Wheel Conveyors is "paying off" in decreased costs for many progressive nurserymen. One of these, Mr. J. Van Lindley, President of Lindley Nurseries, Inc., says: "With your equipment we are able to load our products on our trucks more rapidly than by methods formerly used—and at a considerable savings in cost. Our plants arrive at their destination in better condition because they are moved from one point to another in our warehouse on your conveyor without having to be handled several times by hand."

RAPID-WHEEL GRAVITY CONVEYORS

... Can be set up anywhere in your nursery or greenhouse to convey plants and shrubs easily, efficiently and economically. There are eight standard models, two widths, each model varying in the number of wheels per foot. Standard 5' and 10' sections. Adjustable supports available.

Check these handling costs. . . . Write today for free information on how to reduce handling costs.



Manufacturers of
STEEL FORGED CASTERS • TRUCKS • CONVEYORS • POWER BOOSTERS

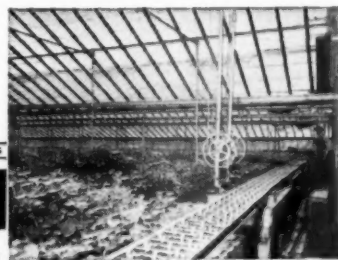
The Rapids-Standard Co., Inc.

Sales Div. 302 Peoples Nat'l Bank Bldg., Grand Rapids 2, Michigan



Weber Bros., Royal Oak, Michigan, are thoroughly pleased with the way Rapid-Wheel moves their flats of seedlings in and out of the greenhouse and onto trucks for delivery.

Rapid-Wheel Conveyor installation in a greenhouse takes up a minimum of space . . . provides easy movement of trays of plants to any part of the greenhouse.



years ahead when new home building will be at its peak, there will probably be nine families living in existing houses for every one building a new home. No one has dramatized the opportunity to remodel landscaping, nor do I believe that any of us appreciate the opportunity of how a 'remodel the landscaping' theme could snowball."

PLACEMENT TRAINING FOR MICHIGAN STUDENTS.

Forty-one students in the 2-year nursery and landscape management training course at Michigan State College, East Lansing, have completed the 6-month winter term of resident training. Placement training, in effect for the ensuing six months, started April 1, with on-the-job experience being acquired at twenty-five cooperating Michigan nurseries, the bureau of plant industry, at Lansing, and the department of parks at Detroit. Placement training will be made with college supervision and guidance, under the direction of Prof. F. L. O'Rourke, coordinator of the program.

WALTER H. KRUMMEL is starting in the nursery business at Carthage, Mo.

FROSTPROOF APPLE

A new Apple, Patent No. 722. It remains dormant and blooms 30 days later than the usual Apple. It is also all right to set out 30 days later. It assures a crop every year, even in localities hit by late spring frost. It is also pest-resistant. Nurseries interested in raising and selling this tree can get mother trees from

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Mineral, Va.

EVERGREENS

Lining-out stock for spring 1947.

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Johnstown, Pa.

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Grapes, Currants and Raspberries—our specialty.

Hydrangeas P. G.

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Fredonia, N. Y.

300,000 CATSKILL 500,000 PREMIER

Certified Strawberry plants.

\$7.50 per 1000.

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Can give prompt shipment from our own cold storages.

ALL PLANTS FIELD TESTED FOR RED STELE root rot and other diseases.

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HEMLOCKS

KALMIA, RHODODENDRON, AZALEA

CURTIS NURSERIES

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Trees, Evergreens, Shrubs Fruit Trees

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Telephone 2689 GENEVA, N. Y.

SPRING FLOWER SHOWS.

[Continued from page 11.]

Joanna Hill, Better Times and any red roses and second prize for fifty Briarcliff roses.

Awards at Chicago Show.

Gold medal winners among the arena gardens at the national flower and garden show at the International Amphitheater, Chicago, Ill., March 16 to 23, included those exhibited by the following nursery firms: Vaughan's Seed Co., Chicago; Billy Baxter, Keego Harbor, Mich., and Swain Nelson & Sons Co., Glenview, Ill.

Silver medals were awarded to the arena gardens of F. D. Clavey Ravinia Nurseries, Inc., Deerfield, Ill., and Palmgren's Nurseries, Glenview, Ill. A silver medal went to Jackson & Perkins Co., Newark, N. Y., for its exhibit of the rose, Garnet.

Awards at New York Show.

Daybreak Nurseries, Inc., Westport, Conn., was awarded the Bulkley gold medal of the Garden Club of America for a spring garden of azaleas, tulips, rhododendrons and laurel set off by boxwood, flowering cherry and dogwood surrounding a thatched roof shelter, at the International flower show, March 17 to 22, at Grand Central Palace, New York city.

Other nurseries receiving awards at the International flower show were Ruzickas', Inc., Chatham, N. J., a first in the rose group, and Brookside Nursery, Darien, Conn., the trophy of the New York Florists' Club for a 500 square foot garden of seasonal material.

For their garden of plants popular a century ago, Peter Henderson & Co., New York city, was awarded a first. Their display of specimen marguerites won another first.

The International flower show committee trophy went to Dauernheim, Inc., Wantagh, L. I., N. Y., for an azalea garden of 500 square feet. Dauernheim's also was awarded a second for three azalea plants in the group of flowering plants not less than three feet tall.

A small but precious statue, "The Artist's Daughter," by the well known classical sculptor, William Zorach, was the center of attention in the seasonal garden exhibit by Bobbink & Atkins, East Rutherford, N. J., at the recent International flower show at New York city. The exhibit, which is shown on page 11, was awarded the silver trophy of the Society of American Florists as the best garden in competition with three others in the 1,100-foot class.

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From the Sub-grade Up.

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TRADING COMPANY, INC.**

90 West Street New York, N. Y.

The statue was set in the middle of a placid pool, which was encircled by a gravel path and low hedge. Salmon, burnt-orange and copper tones were provided by hardy types of azaleas, such as mollis, altaclarens and pontica. Rhododendrons, mountain laurels, pierises and other broad-leaved evergreens combined well with the deciduous azaleas.

Adding to the feeling of restfulness created by circular lines, junipers and flowering dogwoods were arranged in an irregular curve to form the background. Hundreds of low perennials, such as primulas, epimeediums, iberises and other spring-flowering herbaceous plants, added considerable interest. A low *Taxus brevifolia* hedge set off the garden from the aisle, with larger *taxus* accentuating the entrance to the gravel pathway.

Another exhibit by Bobbink & Atkins at the International show was a southern garden, designed to display *Azalea indica*, especially the new *Rutherfordiana* hybrids which are the result of years of painstaking hybridizing by the founder and president of the firm, Lambertus C. Bobbink, and his staff of trained horticulturists. The striking red variety named in honor of the founder particularly attracted much favorable comment. While these hybrid azaleas are not for outdoor garden purposes in northern climates, they are featured by retail nurserymen and florists as potted plants, and their blooms are noted especially for their long-lasting qualities indoors.

Background for the azaleas, which were arranged in a semicircle around a garden bench, was provided by festoons of Spanish moss and tall evergreen specimens. A flagstone path through the garden enabled visitors to observe the azaleas closely.

At the International flower show, the southern garden was awarded the gold medal of the Massachusetts Horticultural Society and the silver medal of the New York Florists' Club. An even more pretentious exhibit of azaleas was awarded the gold medal and first prize at the Philadelphia flower show. This exhibit consisted of a large circular bed, flanked by four quarter-circle beds to provide the focal point for the entire flower show display. No supporting features were used, and the exhibit depended on the mass display of color for effect.

In the border class at the International show at New York city, first prize was awarded to the Bobbink & Atkins long border of flowering shrubs. A colorful border which could be easily duplicated, it featured

STOCK IN STORAGE READY FOR IMMEDIATE DELIVERY

	Per 100	Per 1000
Althaeas, Named Varieties, Assorted		
8000 12 to 18 inches	\$ 8.00	\$ 60.00
10,000 18 to 24 inches	12.00	100.00
3000 2 to 3 feet	15.00	125.00
5000 3 to 4 feet	20.00	150.00
3000 4 to 5 feet	25.00	200.00
Forsythia Fortunei, Intermedia or Spectabilis		
5500 12 to 18 inches	10.00	80.00
1700 18 to 24 inches	15.00	125.00
Honeysuckle Bella Albida and Morrowi		
1200 3 to 4 feet	30.00	250.00
Honeysuckle, Tatarian Pink		
1000 2 to 3 feet	25.00	200.00
Privet, Amur River North		
5000 12 to 18 inches, 2 br. and up.	5.50	45.00
5000 12 to 18 inches, 3 br. and up.	7.00	60.00
5000 18 to 24 inches, 2 br. and up.	6.50	55.00
10,000 2 to 3 feet, 4 br. and up.	15.00	120.00
7500 3 to 4 feet, 4 br. and up.	20.00	140.00
2000 4 to 5 feet, 5 br. and up.	22.50	175.00
Spiraea Vanhouttei		
15,000 12 to 18 inches	10.00	75.00
11,000 18 to 24 inches	15.00	100.00
Boston Ivy		
4000 2-year, medium	20.00	150.00
4500 2-year, No. 1	25.00	180.00
1800 3-year, No. 1	30.00	250.00
Barberry Thunbergi		
15,000 3 to 6-inch seedlings	4.00	30.00
Honeysuckle Bella Albida and Morrowi		
10,000 12 to 18 inches, lining out.	5.00	40.00
12,000 18 to 24 inches, lining out.	6.00	50.00
Salix Niohe (Willow)		
4500 2 to 3 feet, lining-out.	4.00	30.00
3800 3 to 4 feet, lining-out.	5.00	40.00
Roses, Paul's Scarlet Climbing		
	Per 10	Per 100
2000 2-year, XX	\$ 6.50	\$ 60.00
2000 2-year, No. 1	5.50	50.00
5000 2-year, No. 1 1/2	4.50	40.00
Cherry Montmorency		
500 11/16-inch and up.	16.00	150.00
Apple Trees		
1000 Red Delicious, 11/16 to 1-inch.	6.50	60.00
500 Jonathan, 11/16 to 1-inch.	6.50	60.00
1000 Stayman Winesap, 11/16 to 1-inch.	6.50	60.00

250 at thousand rate; 25 at hundred rate.

ONARGA NURSERY CO., INC.

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BLACK LOCUST SEEDLINGS

(Robinia Pseudoacacia)

For Windbreaks, Screens, Woodlots, Shelterbelts, etc.

	Per 100	Per 1000	Per 5000
2 to 3 feet	\$3.00	\$25.00	\$100.00
18 to 24 inches	2.50	20.00	75.00
12 to 18 inches	1.75	15.00	50.00
6 to 12 inches	1.25	10.00	40.00

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FRUIT TREES

East Malling Stocks

Rosebushes and Herbaceous plants

Buy from a firm specializing in exporting plants.

PEPINIERES VANVERT FRERES & FILS
S.P.R.L.

Obourg, Belgium

Ask for quotations on items you need, indicating quantities.

CAMELLIAS-AZALEAS GARDENIAS

See price list in
classified ads.

NATIONAL NURSERIES
Biloxi, Miss.

lilacs, witch hazel, philadelphus, Prunus triloba, forsythia and Azalea mucronulata as background and accent specimens. To direct the eye downward, low-growing rhododendrons and azaleas were harmoniously blended in.

Minneapolis Flower, Builders' Show.

Nurserymen, florists and builders of Minneapolis and St. Paul, Minn., exhibited at the annual builders' and flower show at the Minneapolis Auditorium, Minneapolis, March 22 to 30. One of the outstanding nursery exhibits was that of Rose Hill Nursery, St. Paul, which had a background of evergreens, with a large gazing globe in the center of a bed of tulips and daffodils. A lawn of creeping bent grass added to the authenticity of the arrangement.

DRIVE-IN SALESYARD.

An up-to-date feature of the metropolitan salesyard of the Nogales Nursery, Nogales, Ariz., is an arrangement of driveways so that customers may drive into the area and see all nursery items on display without leaving their automobiles.

Three outlets for the Nogales Nursery are now maintained—the Nogales Flower Shop in the Montezuma Hotel building and the nursery growing grounds three miles north of Nogales, in addition to the new city salesyard. A general line of nursery items will be available at the new outlet, according to Mr. and Mrs. A. W. Steensen, who have placed Robert Fleischer, Jr., in charge. A modern irrigation system for watering plants has been installed.

INDIANAPOLIS MEETING.

Following a dinner meeting March 17 at the Athenaeum, Indianapolis, Ind., for members of the Indianapolis Landscape Association and their families, newly elected officers were installed. They are: President, Floyd Bass; vice-president, H. J. Schnitzius; secretary, Kenneth Randel, and treasurer, Edward Maschmeyer.

HOST TO GARDEN CLUBS.

Members of all garden clubs on Long Island and members of the Long Island Horticulture Society were guests of the Long Island Nurserymen's Association at a meeting, March 5, at the Garden City hotel, Garden City, N. Y.

L. B. DEAN AND CLARK KIDD, Arp Nursery Co., Tyler, Tex., made a trip east early in April.

EVERGREENS

	Per 100	Per 1000
Juniperus Andorra		
6 to 8 ins. (2½-in. rose pots).....	\$20.00	\$175.50
8 to 10 ins., xx.....	22.50	.....
Juniperus Japonica Procumbens		
12 to 15 ins., xx.....	40.00	.....
Black Hills Spruce		
6 to 9 ins., xx.....	22.50	200.00
9 to 12 ins., xx.....	27.50	250.00
Colorado Blue Spruce (seedlings)		
6 to 9 ins., xx.....	22.50	200.00
9 to 12 ins., xx.....	30.00	275.00
Taxus Cuspidata		
2½-in. rose pots, 1-yr.....	25.00	225.00
6 to 8 ins. (cut back from beds).....	35.00	325.00
Taxus Cuspidata Browni		
2½-in. rose pots, 1-yr.....	25.00	225.00
Taxus Cuspidata Intermedia		
2½-in. rose pots, 1-yr.....	25.00	225.00
Taxus Media		
2½-in. rose pots, 1-yr.....	25.00	225.00
Taxus Media Andersoni		
2½-in. rose pots, 1-yr.....	25.00	225.00
Taxus Media Hicksi		
2½-in. rose pots, 1-yr.....	25.00	225.00

All quotations are F.O.B. Milwaukee, subject to stock being sold upon receipt of order. Free packing for cash with order. Please use your printed stationery when requesting wholesale prices.

BROWN DEER NURSERIES

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CHOICE LANDSCAPE MATERIAL

Colorado Blue Spruce, 7 to 12 ft.
Black Hills Spruce, 5 to 9 ft.
Himalayan Pine, 5 to 9 ft.
Mugho Pine, 2 to 5-ft. spread
Allegheny Shade Bush, 5 to 9 ft.
White Dogwood, 5 to 10 ft.
Sweet Gum, ¾ to 1¼ ins.
Sugar Maple, 1½ to 3½ ft.
Scarlet Oak, 1½ to 3½ ft.

Well spaced rows.

White Spruce, 7 to 12 ft.
Douglas Fir, 6 to 10 ft.
Austrian Pine, 5 to 9 ft.
Washington Thorn, 6 to 10 ft.
Common Lilac, 3 to 4 ft.
Redbud, 4 to 5 ft.
Norway Maple, 2 to 5 ins.
Red Maple, 2 to 5 ins.
Red Oak, 1½ to 4 ins.

Several times transplanted.

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For April

800 CABOT 300 STANLEY
200 RANOCAS 300 RUBEL
400 CONCORD 200 JERSEY
800 PIONEER 250 BURLINGTON

All in the 6 to 12-inch grade.
50c each in lots 10 to 100.
40c each in lots 100 or more.
Also 400 CABOT, 12 to 18 ins. 55c each
in lots of 10 or more.

It Pays
to use



We can give immediate shipment.
BOUNTIFUL RIDGE NURSERIES
Princess Anne, Md.

NURSERY STOCK

As a whole, nursery stock consisting of 70,000 plants, mostly young Evergreens, just the right sizes for landscape work or roadside stands.

Old English Boxwood, 6 in. to 2½ ft.
Junipers in variety, 1 to 4 ft.
Arbortvitae in variety, 2 to 4 ft.
Retinosporas in variety, 2 to 4 ft.

And many other varieties, but not in large quantities.

Owner is going out of the nursery business. Will give terms to responsible people. Also will give plenty of time to remove plants. Will accept any reasonable offer.

Wire or write:

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VEGETABLE ROOTS

VICTORIA RHUBARB

Whole Roots

	100 to 250	250 to 1000	1000 to 5000
	Per 100	Per 100	Per 1000
1½-in. and up.....	\$10.00	\$9.50	\$90.00
1 to 1½-in.....	6.00	5.50	50.00
¾ to 1-in.....	5.00	4.50	40.00
½ to ¾-in.....	4.00	3.50	30.00

Ask for prices on quantity.

ASPARAGUS

	25 to 100	100 to 250	250 to 1000
	Per 100	Per 100	Per 1000
Paradise and Washington			
3-yr., heavy.....	\$4.00	\$3.50	\$30.00
2-yr.....	2.80	2.30	18.00
1-yr.....	2.20	1.70	12.00

HORSE-RADISH

	25 to 100	100 to 250	250 to 1000
	Each	Per 100	Per 1000
Cuttings.....	\$0.02	\$1.75	\$15.00
Whole Roots.....	.04½	4.00	35.00

RED RHUBARB DIVISIONS

	Each
Canada Red.....	\$0.40
MacDonald.....	.30

Wire or telephone BRIDGMAN 22

ASK FOR SPECIAL QUOTATIONS ON QUANTITY

KRIEGER'S WHOLESALE NURSERY

Bridgman, Michigan

COMSTOCK'S MEALY BUG.

Comstock's mealy bug is a serious pest of several species of taxus in nurseries at times. The insect causes a loss of foliage and a stunting of the growth of the shrubs. It was found at the Connecticut agricultural experiment station that applications of a mixture containing lime-sulphur with a wetting agent—the dilution of lime sulphur being one part to thirty-nine parts of water—would kill about eighty-five per cent of the insects present, including eggs, and that, at a dilution of one part to nineteen parts of water, the kill was complete.

Lime-sulphur causes a certain amount of injury to taxus, particularly to new growth, but at a dilution of one to nineteen the injury is very slight and the plants recover readily. Presumably, a late fall application would be advisable for the control of this pest, because the residue left after spraying lime-sulphur discolours, the foliage for several weeks.

MODERN, postwar quarters for C. Malmo Nursery, Seattle, Wash., are being constructed northeast of the University of Washington campus. Designed attractively, the 2-story building has eye-appealing, curving lines.

F. A. WIGGINS, of Seattle, Wash., is now calling on the trade in the vicinity of New York city, after spending February and March on his semiannual trip through the middle west. He is as active as ever, though he celebrated his seventy-eighth birthday in February.

QUALITY GLADIOLUS GARDENS

"Growing for 24 years"

Something new has been added! NOW! Certified bulbs at no extra charge, with a positive protection for you and yours. Why take a chance on something of which you are not sure?

We sell only hand-dug, hand-cleaned, hand-graded and selected bulbs. Write for our list of the good commercial varieties in all sizes and bulblets.

Try Us for Service and Satisfaction.

EDWIN SIROIS & SON

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We Offer—

EVERGREENS—In a large assortment of PYRAMIDAL and GLOBE ARBORVITAE, PFITZER JUNIPER and YEWs in grades at attractive prices. SOME LARGE SPECIMEN EVERGREENS, SHRUBBERY and SHADE TREES.

Mail want list for prices.

THE WESTMINSTER NURSERIES

Westminster, Md.

"A friendly, efficient sales service"

E. D. ROBINSON
SALES AGENCY
38 So. Elm St. P. O. Box 285
WALLINGFORD, CONN.

Representing

Adams Nursery, Inc.
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Barnes Brothers Nursery Co., Inc.
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A. N. Pierson, Inc.

A complete line of well grown hardy plant material
Evergreens and Lining-out Stock

ACER PLATANOIDES

Norway Maples

Look!

Look!

	Per 100
4 to 5 ft., trans.....	\$13.50
5 to 6 ft., trans.....	18.00
6 to 8 ft., trans.....	30.00
6 to 8 ft., ¾ to 1-in. cal.....	60.00
10 to 12 ft., 1 to 1½-in. cal.....	75.00
12 to 14 ft., 1½ to 2-in. cal., well branched.....	150.00
14 to 16 ft., 1½ to 2-in. cal., well branched.....	200.00
16 to 18 ft., 2 to 2½-in. cal., well branched.....	225.00

Additional charge of 10% will be added for balling and shipping. No charge will be made for loading bulk trucks.

State Road Nursery

Route 1, State and Sprout Rds.,
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NORTHERN COLLECTED EVERGREENS

FERNS

PLANTS

SHRUBS

WILLIAM CROSBY HORSFORD

Charlotte, Vermont

PEACH YELLOW-RED VIROSIS SPREADS IN ILLINOIS.

Peach yellow-red virosis, caused by Marmor lacerans, is spreading southward through Illinois on chokecherries, or *Prunus virginiana*, according to an article by H. H. Thornberry in the Plant Disease Reporter, issued by the plant disease survey of the United States Department of Agriculture.

During a survey conducted August 24 to 26, chokecherry bushes with typical symptoms of the disease were observed in Knox, Mercer, Peoria and Rock Island counties. Since only about one to three per cent of the chokecherries were diseased, it appears that the spread of the disease into these counties has been recent. Although the diseased bushes in Peoria county did not show marked rosetting and were probably infected within about a year, in other counties some diseased bushes had developed rosetting with yellowish foliage, which indicated infections older than the current year.

Approximately sixty to seventy-five per cent of the chokecherries in the northeastern part of the state, where the disease was first observed on this host in Cook county in August, 1939, are affected. The disease in these chokecherries was confirmed by inserting buds and bark tissues under the bark of greenhouse peach trees, which in time developed unquestionable symptoms of the disease in peach.

The consequence of the disease to peaches in Illinois is unpredictable at present. On chokecherries, the disease has spread southward approximately 100 miles in the past six years. Since this host appears to be largely responsible for the spread of the disease under natural conditions, and since the known distribution of chokecherries in Illinois does not overlap the areas of commercial peach orchards, there is some assurance that the disease may not invade the commercial peach areas.

Some uncertainty as to the safety of commercial peaches in Illinois is caused by the fact that four herbaceous hosts of the disease have been found, including tomato, carrot, parsley and periwinkle. Other hosts may exist which could bridge the gap in distribution between chokecherries and commercial peaches in Illinois. Since the additional diseased chokecherries found in 1945 were within areas containing a mixed population of many species of trees, shrubs and wild vegetation, other wild hosts appear to be likely. However, the dense wild vegetation in these areas

EVERGREENS

We are pleased to offer you the following Evergreens for Spring delivery.

	Each per 100
<i>Taxus Cuspidata</i>	2 1/4-in. pots \$0.25
<i>Taxus Cuspidata Nana</i>	2 1/4-in. pots .25
<i>Taxus Media Hatfieldi</i>	2 1/4-in. pots .25
<i>Taxus Media Hicksi</i>	2 1/4-in. pots .25
Norway Spruce	2 to 2 1/2 ft. 1.75
Norway Spruce	2 1/2 to 3 ft. 2.50
Norway Spruce	3 to 4 ft. 3.25
Juniper Pfitzeriana (Heavy)	3 to 4 ft. 4.75
Juniper Virg. Burki	4 to 5 ft. 5.00
Juniper Chin. Keteleeri	5 to 6 ft. 6.50
Juniper Keteleeri	4 to 5 ft. 5.00
Mugho Pine	15 to 18 ins. 1.75
<i>Tsuga Canadensis</i>	3 1/2 to 4 ft. 4.00
<i>Tsuga Canadensis</i>	4 to 4 1/2 ft. 4.75
<i>Tsuga Canadensis</i>	4 1/2 to 5 ft. 5.50
<i>Taxus Cuspidata Nana</i>	15 to 18 ins. 4.00
<i>Thuja Occidentalis Pyr.</i>	3 to 4 ft. 3.50
<i>Thuja Occidentalis Pyr.</i>	4 to 5 ft. 4.00



EAGLE CREEK NURSERY CO.

New Augusta, Ind.

SPECIMEN EVERGREENS

Am. Arborvitae, 4 to 5 ft.	\$3.25
J. Burki, 4 to 5 ft.	4.50
J. Columnaris Glauca, 4 to 5 ft.	4.50
Hemlock, 3 to 4 ft.	3.50
J. Hilli, 4 to 5 ft.	4.00
J. Irish, 4 to 5 ft.	2.65
J. Meyer, 18 to 24 ins.	2.35
Mugho Pines, 18 to 24 ins.	2.25
J. Pfitzer, 2 to 3 ft.	2.95
J. Pyramidalis, 3 to 4 ft.	3.25
Scotch Pine, 4 to 5 ft.	1.50
<i>Taxus Hicksi</i> , 18 to 24 ins.	2.00

All stock well sheared and in excellent condition. No shipments. Prices are cash and for stock in the field, digging approximately 15 per cent additional.

ZEPHYR HILL NURSERIES

Springfield, Ohio

Two miles south of city on State Route No. 68

Richard B. Schmidt

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BLUE SPRUCE LINERS

	Per 1000
2-yr. seedlings, 2 to 3 ins.	\$15.00
3-yr. seedlings, 3 to 6 ins.	25.00
4-yr. transplants, 3 to 5 ins.	50.00

We grow 14,000,000 seedlings and transplants per year. Write for complete list.

MUSSER FORESTS, Inc., INDIANA, PA.

GRAPES

	Per 100	Per 1000
Agawam, purplish-red		
2-year, No. 1.....	\$18.00	\$150.00
1-year, No. 1.....	14.00	120.00
Caco, red, best quality		
2-year, No. 1.....	20.00	.....
1-year, No. 1.....	16.00	.....
Catawba, purplish-red		
2-year, No. 1.....	18.00	150.00
1-year, No. 1.....	14.00	120.00
Concord, large, black		
2-year, No. 1.....	15.00	125.00
1-year, No. 2.....	7.50	65.00
Delaware, light red		
2-year, No. 1.....	20.00	180.00
1-year, No. 1.....	16.00	140.00
Fredonia, new, early, black		
2-year, No. 1.....	18.00	150.00
1-year, No. 1.....	14.00	120.00
Golden Muscat, golden-yellow		
2-year, No. 1.....	60.00	.....
1-year, No. 1.....	45.00	.....
Moore Early, black		
2-year, No. 1.....	20.00	180.00
1-year, No. 1.....	16.00	140.00
Niagara, yellowish-green		
2-year, No. 1.....	18.00	150.00
1-year, No. 1.....	14.00	120.00
Worden, black, early		
2-year, No. 1.....	18.00	150.00
1-year, No. 1.....	14.00	120.00

THE WILLIS NURSERY CO.

Ottawa, Kansas

BOBBINK & ATKINS

Nurserymen and Plantsmen

Visitors always welcome.

Paterson Ave. E. Rutherford, N. J.

Old English BOXWOOD

(Wholesale Only)

All slow-grown dense specimens. Red clay soil. Priced by height and spread. 18x12 ins. to 24x22 ins. in unlimited quantities. Also large specimens up to 5 ft. Write for price list.

BOXWOOD GARDENS

Mrs. R. P. Royer High Point, N. C.

CANADIAN HEMLOCKS

No loss when you get them in the bands they grew in; just set them out as they are.

5 to 18 ins., in 3 to 8-inch bands.

Now booking 1947 orders.

CALVIN S. GROBAKER

115 Beechwood Ave., Catonsville 28, Md.

may have favored abundance of the natural vectors, probably insects of the disease.

PENNSYLVANIA MEETING.

Fairview Evergreen Nurseries, Fairview, Pa., will be host for the all-day meeting on August 6 of the Pennsylvania Nurserymen's Association. Those who will need overnight accommodations are to be quartered at the Hotel Lawrence, at Erie.

PEONY SOCIETY TO MEET.

The American Peony Society has announced that it will hold its annual meeting and peony exhibit at Horticultural Hall, Boston, Mass., June 17 and 18. The exhibit will be held in conjunction with the Massachusetts Horticultural Society's annual show.

AT Spartanburg, S. C., Palmetto Wholesale & Retail Nursery has been established.

STARTING in the nursery business after his release from the army, Ralph Hooks has opened Southwestern Nursery, at San Angelo, Tex.

FORMERLY Iowa Nursery & Landscape Co., the nursery and landscape firm at LeMars, Ia., owned by Grover C. and Cora R. Bechtle is now known as LeMars Nurseries.

R. E. McHENRY has purchased the Little River Nursery, Wichita, Kan., from V. E. Grandfield and has changed the name to McHenry Nursery.

JOHN D. FLEMING is starting the River View Nursery, Madison, Tenn. He will grow ornamental shrubs and evergreens on fifteen acres of his own land.

BEN RUBENSTEIN, proprietor of Sussex Nurseries, Ltd., Sussex, England, was a visitor to the International flower show at New York city. Sussex Nurseries, one of the principal nursery organizations in southern England, specialize in orchids and chrysanthemums.

FRANCIS R. LANCASTER has been appointed to the research staff of the Davey Tree Expert Co., Kent, O., and to the faculty of the Davey Institute of Tree Service, according to Martin L. Davey, Jr., president. A graduate of Rutgers University, Mr. Lancaster served as an extension plant pathologist at the University of Nebraska and worked at the Dutch elm disease laboratory at Morristown, N. J. At the Davey institute, he will conduct instruction in plant diseases.

CAMELLIAS-AZALEAS and GARDENIAS

QUANTITY LOTS



Mud dipped 4-inch roots pots

GARDENIAS

6 to 10 inches.....\$0.30 \$0.50

AZALEAS, Indica (large type), Fisher Pink, Formosa, Pride of Mobile, Pride of Dorking, Elegans.

6 to 10 inches......30 .50

AZALEAS, Kurume (dwarfs) (April delivery), Hinodegiri, Coral Bells, Salmon Beauty, Hexe, Snow.

4 to 8 inches......50 .75

CAMELLIAS (Japonicas), Standard Varieties, such as Alba Plena, Chandleri Elegans, Hermes, Monarch, Otome, Pink Perfection, Prof. Sargent, Elizabeth, Caledonia, Sarah Frost.

10 to 18 inches..... 1.25 1.75
Rooted cuttings, mixed, labeled,
\$25.00 per 100.

RARE CAMELLIAS, such as Debutante, Purple Dawn, Alba Superba, Gigantea, Kumasaka (variegated), Laurel Leaf, Daikagura, C. M. Hovey, Fanny Bolis, Pink Star, Snow Drift.

10 to 18 inches..... 2.25 2.75
Rooted cuttings, mixed, labeled,
\$45.00 per 100.

Write for prices on other varieties.

Check with order.

NATIONAL NURSERIES

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Maloney's

Offer for Spring delivery 2-year Standard Apple, Sweet and Sour Cherry, Standard Pear and 1-year Peach. Also 2-year Shrubs, bushy, well rooted, twice transplanted. Write for wholesale circular.



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NURSERY CO., INC.**

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KOREAN PINE (Nut Pine)

12 inches to 5 feet.

ELFGREN NURSERIES

East Killingly, Conn.



CALIFORNIA ASSOCIATION OF NURSERYMEN

JACK LINCKE, Executive Secretary

215 West Seventh St., LOS ANGELES 14, CALIF.

GROUP INSURANCE.

Efforts are being made by the executive secretary of the California Association of Nurserymen to initiate a group plan which will enable members to obtain a thirty per cent reduction on their public liability insurance.

Proposals have been submitted by three insurance brokers in the state. All of these plans are virtually identical in character and provide coverage from \$10,000 to \$20,000 on bodily injury and \$1,000 to \$10,000 on property damage, with a minimum premium of \$7.50 on the former and \$3.50 on the latter.

Little can be done in obtaining a reduction in premiums on automobile coverage, except for trucks that operate five or more trucks or passenger cars, which may obtain "fleet ratings" with discount based upon experience ratings or, in other words, upon past safety records.

The insurance problem is divisible into two general groups. The first consists of wholesale and retail establishments which perform no labor off their own premises. The second group is made up of retail and/or wholesale organizations which also do landscaping work. In the former case premiums can generally be worked out on a flat rate basis taking into account the physical size of the nursery and the likely frequency of accident exposure to customers. While some retail operators may believe that it is unnecessary to carry property damage insurance, they should not lose sight of the fact that there is always a possibility of a fire's starting on their premises and spreading to an adjacent business owned by someone else. Aside from this feature, property damage fairly much confines itself to the nuisance category, in which a customer might tear his suit or her dress on a stake or nail.

Landscapers, of course, are more concerned with property damage than is generally true of other types of business, and few firms of this nature operate without adequate coverage.

In general, there are a great many ramifications to setting up a program of this nature. First of all, a person must consider the smaller operators whose public liability and property

damage insurance premiums are not particularly high. In most cases their annual premium will run from \$12 to \$20 per year, and their savings under the group plan from approximately \$3 to \$7 a year. While this is not an appreciable figure, those sums are probably as important to a small firm as several hundred dollars would be to a large one. There is the possibility, also, that brokers are already extending to the larger firms reductions of fifteen to twenty per cent of the premium as a bonus for the business.

However, when the program is

NORTHERN - GROWN STOCK

For the very best transplants, get our northern-grown seedlings. Any experienced nurseryman knows that 2-yr. seedlings are the best for well shaped transplants for lining out in 2 years. Get the best.

	Per 1000
Douglas Fir, 2-yr. seedlings, 2 to 3 ins.	\$30.00
Douglas Fir, 2-yr. seedlings, 1 to 3 ins.	20.00
Black Hills Spruce, 2-yr. seedlings, 1 to 2 ins.	15.00
Colorado Blue Spruce, 2-yr. seedlings, 2 to 3 ins., these run the highest percentage of Blues we ever grew	25.00
Ostrich Plume Ferns, hardy, 2 1/2 to 3 ft., multiply by runners. We have repeat orders on these from 30 states. They are a very good salesyard item. Large clumps, \$6.00 per 100.	

Satisfaction guaranteed. Good packing.
Prompt service.

Cash or satisfactory references.
No C.O.D.

J. R. PALMER & SON
Blackduck, Minn.

BOSTON IVY

	Per 10	Per 100
3-year, No. 1	\$4.00	\$35.00
2-year, No. 1	3.50	30.00
	(\$270.00 per 1000)	
2-year medium	2.90	25.00
	(\$220.00 per 1000)	
1-year seedlings	.65	6.00
	(\$50.00 per 1000)	

THE WILLIS NURSERY CO.
Ottawa, Kansas

PRIVET and BERBERIS

Splendid Stock

Write for Special Quotations

LESTER C. LOVETT
MILFORD DELAWARE

evaluated in terms of the entire association membership, it is readily apparent that an industry-wide saving on this type of insurance can amount to between \$4,000 and \$5,000 a year. When this sum is added to the probable refunds of the group compensation insurance arrangement, the saving becomes very appreciable.

In attempting to work out cooperative insurance and other ventures, an executive secretary finds himself exceedingly handicapped through lack

EVERGREEN ROOTED CUTTINGS AND TRANSPLANTS

We are now booking orders for spring and summer delivery. Get our full list. Tr. - Transplants R.C. - Rooted Cuttings

	Per 100	Per 1000
Abelia Grandiflora, 10 to 12 ins., X.	\$15.00	
Abelia Grandiflora, 12 to 15 ins., X.	20.00	
Arbutus Menziesii, Globe Arb., R.C.	8.00	75.00
Arbutus Menziesii, Pyramidal Arb., R.C.	8.00	75.00
Arbutus Menziesii, Tom Thumb, R.C.	7.00	65.00
Arbutus Menziesii, Nigra, R.C.	8.00	
Juniper Communis Depressa Pumosa, Andorra Juniper, R.C.	9.00	
Juniper Hetzi, Blue Pfitzer Juniper, R.C.	14.00	
Retinospora Filifera, Thread Retinospora, R.C.	7.00	
Retinospora Filifera Aurea, R.C.	7.00	
Retinospora Pumosa, R.C.	7.00	65.00
Retinospora, Gold Dust, R.C.	8.00	
Retinospora Squarrosa Veitchii, R.C.	7.00	
Retinospora Squarrosa Veitchii, Tr.	18.00	
Retinospora Pumosa, 6 to 8 ins., Tr.	18.00	
Taxus Baccata Repandens, R.C.	9.00	
Taxus Cupidata, R.C.	9.00	85.00
Taxus Cupidata Capitata, R.C.	14.00	135.00
Taxus Cupidata Nana, R.C.	12.00	

ESHAM'S NURSERIES
Frankford, Del.

LINING-OUT STOCK OUR SPECIALTY . . .

Shade Tree Whips . . . a
timely finished product saving
2 to 4 yrs. growing effort
. . . excellent variety.

A very complete line of
**ORNAMENTAL TREES, SHRUBS
and EVERGREEN SHRUBS,**
including many scarce items.

THOMAS B. MEEHAN CO.
Dresher, Pa.

COLORADO BLUE SPRUCE

5-yr. T., 6 to 8 ins., \$75.00 per 1000.
500 at 1000 rate. Beetle inspected.

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Grapevines, Currant Roots,
Currant Cuttings and Berry Plants.

Small Fruit Specialists.

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Established 1875

FRUIT TREES

GINKGO

NORWAY MAPLE

SOFT MAPLE

SWEET GUM

THURLOW WILLOW

WELL GROWN

EVERGREENS, in variety

ORNAMENTALS TREES SHRUBS EVERGREENS

Wholesale growers of a
general assortment for
the best landscape plantings.

BRYANT'S NURSERIES
Princeton, Illinois

Northern-grown California Privet

Sizes: 12 to 18 ins.,
18 to 24 ins.

Select European Sycamore

in all sizes.

T. B. WEST & SON
Perry, Ohio

CARLOADS OF JUNIPERS UPRIGHT-GROWING

Dundee, Hillspire, Keteleer, Nevin's
Blue, Silver Glow, Sylvester or Reeves,
Virginiana Glauca, Vonehron, Trained
Upright.

HORIZONTAL-GROWING

Japanese, Savin, Vonehron, Waukegan
and others.

Ask for catalog. Wholesale only.

VERHALEN NURSERY CO.
Scottsville, Texas

OUR SPECIALTIES

Jun. Pfitzeriana, B&B. and pots.
Taxus in variety, R.C., tr. and pots.
Weigela, Eva Rathke, 2-yr. frame tr.
Viburnum Rhytidophyllum, R.C. and pots.
Contracting now for future delivery.
Correspondence invited. No catalog.

HUMPHREYS LANDSCAPE SERVICE
Mt. Sterling, Ky.

of information about his membership. One of the most valuable assets a state association office can have is complete statistical information on all of the firms he represents. For example, he should know how many male and female full-time and part-time employees each nursery has; the total annual pay roll; the number of square feet devoted to lath houses and glass-houses; the number of square feet in retail salesyards, salesrooms and storage facilities; the number of trucks and passenger cars utilized by each firm; the total production of each grower broken down into categories and by amounts; the types of all business insurance carried, and the annual premium costs.

Without information of this nature, the state office wastes a great deal of time in attempting to set up things for the mutual benefit of its membership. There is some difficult-to-understand reluctance on the part of nurserymen to divulge information of this nature despite the fact that the data can be obtained from almost innumerable city, county and state agencies.

Curiously enough, in dealing with the average metal trades, laundry and restaurant and other types of trade associations, one can telephone the office concerned and obtain almost minute information on the business of almost any member of the group or of the entire group. It is believed that nurserymen will have to operate in the same manner, if their association is to give its best service.

For the foregoing reasons it is strongly recommended by the California Association of Nurserymen that other state groups wishing to set up these cooperative programs first of all by some means obtain the statistical data which are the very foundation of their successful and economical arrangement.

Jack Lincke, Sec'y.

CALIFORNIA CONVENTION.

The next convention of the California Association of Nurserymen will be held at the Grant hotel, San Diego. The convention is usually held in September, but no definite dates have been set as yet.

INGLEWOOD NURSERYMEN MAY JOIN ASSOCIATION.

Discussion was held on the possibility of the Inglewood group of California nurserymen joining the California Association of Nurserymen and of holding a flower show at Inglewood when a group of thirty nurserymen from the Centinela val-



Growers of a complete
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coniferous species.

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Lake City, Minn.

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Price
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Headquarters for

HARDY Mums and Phlox

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Leading Perennial Growers

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BLUE RIBBON GLADIOLUS

If you are looking for good quality
Gladiolus, new and old, at Popular
Prices, send for our 1947 list.

HILLTOP FARMS
Morrison, Ill.

300,000 HARDY CHRYSANTHEMUMS Field-grown Divisions

ALGONQUIN, fine, double, showy yellow.
APOLLO, bronze and yellow, Korean, tall, good.
ASTRID, clear pink, Korean.
AUTUMN LIGHTS, lovely semi-double bronze.
CALIPH, tall, double, deep red.
DEAN KAY, large cushion type, rose-pink.
EMBER, double, showy orange-bronze.
GOBLIN, warm bronze pompon, good cutter.
JEAN TREADWAY, double pink, tall, good cutter.
KRISTINA, beautiful cerise-red, Korean.
MARJORIE MILLS, cushion type, crimson and peach.
PIGMY GOLD, cushion type, yellow pompon.
SIEGFRIED, large, yellow, Korean.
SONNY BOY, bronze-yellow pompon, good for pots.
VIKING, large reddish-bronze, Korean.
WHITE GULL, cushion type, white pompon.

CUSHION MUMS

BRONZE CUSHION
NEW RED CUSHION
PINK CUSHION
WHITE CUSHION
 Above at \$4.00 per 100; \$35.00 per 1000.
 25 at 100 rate. Minimum order \$4.00.
 Delivery April 1 and later.

NAGLE'S NURSERY

Benton Harbor, Mich.

T. G. OWEN & SON, INC.

WHOLESALE NURSERYMEN

Columbus, Mississippi

See our classified Ad
in this issue.

Complete Trade List
mailed upon request.

PAUL'S SCARLET CLIMBER

Strong 2-year, No. 1, field-grown,
\$6.50 per 10; **\$60.00** per 100;
\$500.00 per 1000.
 30 at 100 rate; 300 at 1000 rate.

WILLIS NURSERY CO.

Ottawa, Kansas

The **CHRYSANTHEMUM**
CATALOG you cannot afford
 to be without.

WONDERLAND NURSERIES
 Ellersong, Va.

ley area met February 17. The matter of the new nurserymen's group joining the state association was referred to Jack Lincke, executive secretary of the California Association of Nurserymen. Also included in the February meeting was a report of the last meeting of the Los Angeles chapter of the California Association of Nurserymen given by President Joseph Beeler and Jack Mather.

SAN JOAQUIN MEETING.

A home-cooked dinner was enjoyed by thirty-six members and guests of the San Joaquin Valley Nurserymen's Association at Goodhue Gardens, Fresno, Cal., March 29.

The meeting was presided over by Vice-president G. W. Walder. F. C. LeRoque, of the L. E. Cooke Nursery, San Gabriel, introduced Mr. Hertenstein and L. E. Cooke. Mr. LeRoque showed colored slides of many varieties of camellias, accompanied by comments from Mr. Hertenstein, in a program that was well presented and enjoyed by all. George T. Goodhue introduced Mr. Ukes, of Pasadena, also a camellia grower, who gave another interesting illustrated lecture on camellias.

L. P. Sorensen suggested that the secretary be instructed to send a night letter of protest to Assemblymen Collins, Crichton and James of the state legislature stating that the San Joaquin chapter of the California Association of Nurserymen had gone on record in opposition to the proposed gas tax plan now pending in the legislature.

Syd Whitehorn announced that the next meeting, scheduled for April 15 at Goodhue Gardens, would be open to members only. Jack Lincke, executive secretary of the California Association of Nurserymen, and a representative of the nursery bureau service were to be present.

Vance V. Edmonson, Sec'y.

SAN FERNANDO MEETING.

A dinner meeting of the San Fernando Valley Nurserymen's Association, March 12, at the Patio restaurant, Van Nuys, was called to order at 8:30 by President William Powell. Eight new members were introduced, making a total of forty-four active members in the association.

As part of the entertainment presided over by Vice-president Ted Beach, La Playa Nursery, San Fernando, prizes were given for the prettiest hair decorations and the most amusing hat, and the members

MICHIGAN-GROWN PEACHES

Per 1000
 Leading varieties in 5/16-in. \$240.00
 Leading varieties in 2 to 3 ft. 190.00

SHADE TREES

Per 100
 Hackberry, 1 1/2 to 2-in. \$185.00
 American Ash, 1 1/2 to 2-in. 225.00
 Honey Locust, 1 1/2 to 1 3/4-in. 225.00
 Thornless Honey Locust, 1 1/2 to 1 3/4-in. 250.00
 American Elm, 1 1/2 to 1 3/4-in. 175.00
 Chinese Elm, 1 1/2 to 1 3/4-in. 175.00
 No. 1 H. T. Roses 50.00

The Atlas Portable Irrigation Equipment is a big money-saver and ideal for nursery and farm use. Write for information.

I. E. ILGENFRITZ' SONS CO.

THE MONROE NURSERY
 Monroe, Michigan

The lovely

Yellow

Rose



V for Victory

and other

SUB-ZERO HYBRID TEAS

Large and beautiful as any.
 Easy to grow and long to live.
 Save replacement expense.
 Also Yellow and Orange Climbers.

Write for trade prices to

BROWNELL ROSES

LITTLE COMPTON, R. I.

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ORNAMENTAL SHRUBS
 SHADE TREES, VINES
 FOREST TREE SEEDLINGS
 LINING-OUT STOCKS



EVERGREENS

Growers of Quality Evergreens
 Lining-out Stock a Specialty
 Write for Trade List

EVERGREEN NURSERY CO.
 Established 1884 : STURGEON BAY, WIS.



Wholesale growers of the best
 Ornamental Evergreens,
 Deciduous Trees,
 Shrubs and Roses

Write for our current trade list.

THE KALLAY BROTHERS CO.
 Painesville, Ohio

CURRENTS

	Per 100	Per 1000
Cherry		
2-year, No. 1	\$18.00	\$150.00
2-year, No. 2	14.00	120.00
Fay's Prolific		
2-year, No. 1	18.00	150.00
2-year, No. 2	14.00	120.00
Red Lake		
2-year, No. 1	22.00	200.00
2-year, No. 2	18.00	160.00
Wilder		
2-year, No. 1	18.00	150.00
2-year, No. 2	14.00	120.00

THE WILLIS NURSERY CO.
Ottawa, Kansas

WE OFFER FOR IMMEDIATE SHIPMENT

	Per 100
AZALEA CALENDULACEA.	
Flame Azalea,	
2 to 3 ft., well br. with	
bloom buds	\$30.00
ILEX OPACA, American Holly.	
9 to 12 ins.	10.00
HYDRANGEA ARBORESCENS.	
2 to 3 ft., well br.	20.00
SPIRAEA CALLOSA ROSEA. Pink	
3 to 4 ft., well br.	25.00

See our ads in previous issues for lining-out stock. Our stock has been put in storage and is in good dormant condition.

O. H. PERRY NURSERY CO.
Box 545 McMinnville, Tenn.

WANTED

- 100 *Rhododendron Catawbiense*, nursery-grown, 18 to 24, 24 to 30 ins.
- 100 *Rhododendron Maximum*, nursery-grown, 18 to 24, 24 to 30 ins.
- 300 *Euonymus Vegetus*, 18 to 24 ins.
- 100 *Euonymus Carrierei*, 15 to 18 ins.
- 100 *Myrica Cerifera*, 15 to 18 ins.
- 100 *Myrica Cerifera*, 18 to 24 ins.
- 1000 *Cotoneaster Acutifolia*, sdgls., 8 to 12 or 12 to 18 ins.
- 5000 *Pinus Resinosa*, 3-yr. sdgls.
- 5000 *Picea Excelsa*, 3-yr. sdgls.

WADE & GATTON NURSERIES
Bellville, Ohio

WANTED

500 to 1000 *Clematis Jackmanii*
Either pot-grown or 2-yr., No. 1. Any quantity acceptable. Write immediately and quote on same.

HALLA NURSERY
2636 Hennepin Ave. Minneapolis, Minn.

with the least and the most hair were assessed fines.

Frank J. Smythe, Smythe's Nursery, Roscoe, reported on the activities of the board of directors. Verne McIntyre, Toluca Lake Nursery, Burbank, spoke on the value of belonging to the organization. He believes one advantage is making friends and another is the strength to be gained by unity. Nurserymen may become acquainted with allied tradesmen through the organization, thus gaining access to items which may be hard to find. The bulletin of the association is a means of gaining knowledge of national and state trends, Mr. McIntyre pointed out. William Clark, Germain's Ranch Nursery, Van Nuys, appraised the social activities of the organization and said he felt they could be made more effective if wives of nurserymen were invited more frequently to attend the meetings.

Paul Moulder, Moulder Bros., Glendale, spoke on the state compensation insurance fund. He pointed out that by belonging to the association, membership dues for the year could be paid for out of compensation insurance dividends.

Paul E. Lombard, Sec'y.

TRI-COUNTY CHAPTER VIEWS CYMBIDIUM SHOW.

The fifty-seventh meeting of the Tri-County chapter of the California Association of Nurserymen, at Eaton's restaurant, Santa Barbara, the evening of March 28, was a welcome departure from the regular chapter meetings, inasmuch as Tri-County chapter members were guests of the Santa Barbara Horticultural Society, which was also entertaining the members of the Pasadena Horticultural Society for the evening.

The meeting was called to order by Bert Kallman, president of the Santa Barbara Horticultural Society and a past president of the California Association of Nurserymen, and 127 horticulturists and nurserymen sat down to an enjoyable chicken dinner.

President Kallman welcomed the guests and expressed his regrets that Paul Scott, president of the Pasadena group, would not be able to be present at the meeting because he had taken ill upon arriving at Santa Barbara. Mr. Kallman then called upon Vice-president Stover, of Pasadena, to introduce members of his group individually.

President Kallman asked Vice-president Jack Horner, of Santa Barbara, to introduce the members of the Santa Barbara society. President

NURSERY - GROWN and COLLECTED

For the next 15 days we have these surplus items on the yard for cash.

	Per 100	Per 1000
California Privet		
6 to 12 ins., 2 br. up.	\$2.00	\$18.00
12 to 18 ins., 2 br. up.	3.00	25.00
Amur River North Privet		
6 to 12 ins., 2 br. up.	3.00	25.00
12 to 18 ins., 2 br. up.	4.00	35.00
Amur River South Privet		
6 to 12 ins., S.	.75	6.00
12 to 18 ins., S.	1.00	8.00
18 to 24 ins., S., good.	1.25	10.00
Deutzia Crenata		
12 to 18 ins., C.	3.00	25.00
12 to 18 ins., Br.	5.00	40.00
Red Osier Dogwood		
6 to 12 ins., C.	2.00	18.00
12 to 18 ins., C.	2.50	20.00
Silver Maple		
6 to 12 ins., S.	.75	8.00
12 to 18 ins., S.	1.25	10.00
18 to 24 ins., S.	1.50	12.00

NATIVE COLLECTED SHRUBS

Hydrangea Arborescens		
12 to 18 ins., S.	3.00	25.00
18 to 24 ins., S.	4.00	35.00
18 to 24 ins., Br., good	8.00	60.00
Acer Saccharum		
6 to 12 ins., S.	1.00	8.00
12 to 18 ins., S.	2.00	18.00
2 to 3 ft., S.	4.00	35.00
3 to 4 ft., S.	10.00	85.00
Cercis Canadensis		
3 to 4 ft., S., Br.	15.00	135.00
4 to 6 ft., well Br.	25.00	
Liriodendron Tulipifera		
2 to 3 ft., S.	2.00	15.00
3 to 4 ft., S.	4.00	35.00
4 to 6 ft., Br. top.	10.00	75.00

We appreciate your orders, and we are offering you 5 per cent discount and free packing for all orders accompanied by cash in full. No C.O.D. orders, please.

HIGHWAY GARDENS
Route 3 McMinnville, Tenn.

LAKE'S SHENANDOAH NURSERIES Shenandoah, Iowa

*Wholesale growers of
a fine assortment of*

GENERAL NURSERY STOCK

Your inquiries will be appreciated.

TAXUS VERMEULEN

A compact upright grower. Each
12 to 14 ins., XXX (bushy) B&B. \$2.50
15 to 18 ins., XXX, B&B. 2.75
Crating, no extra charge; cash with order.

LUCKHARDS' NURSERIES
R.R. 2 Sebewaling, Mich.

SNEED NURSERY COMPANY

P. O. Box 798

Oklahoma City, Okla.

PEACH TREES

Priced for clearance. All nicely branched and in A-1 condition. Prompt shipment.

9/16-in., 3 to Per 10 Per 100
3 1/2 ft. \$4.00 \$35.00

7/16-in., 2 to 3 ft... 3.00 25.00

5/16-in., 1 1/2 to
2 ft. 2.50 20.00

Elberta Golden Jubilee

Halehaven J. H. Hale

THE CLYDE NURSERY

A. R. Pickett & Son
CLYDE, OHIO

APPLE TREES

In storage; prompt shipment.

At reduced prices.

Golden Delicious Delicious

Jonathan Double Red

Double Red Delicious

Jonathan Winesap

York Imperial Grimes Golden

Wealthy Transparent

And other varieties.

Send us your want list, and we will be pleased to quote you.

GOLDEN EAGLE NURSERY

Phone: Main 36-8 Golden Eagle, Ill.

EARLY HARVEST BLACKBERRIES

Per Per Per
Root-cutting plants 100 1000 5000

No. 1.....\$4.50 \$40.00 \$187.50

No. 2..... 3.50 30.00 137.50

The WILLIS NURSERY CO.

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GRAPEVINES, CURRANTS, GOOSEBERRIES and BERRY PLANTS

Can also supply Currant
lineouts and cuttings.

Known to the Wholesale Trade
for Small Fruit Plants of Superior
Quality Since 1890.

F. E. SCHIFFERLI & SON NURSERIES
Fredonia, N. Y.

C. Mavro Warren of the Tri-County chapter introduced the nurserymen, extended his thanks and reminded the Tri-County members of the meeting at San Luis Obispo, May 23, when they are to visit the polytechnic school and inspect its many agricultural projects.

A distinguished guest, Hugh Evans, of Evans & Reeves, Los Angeles, was introduced by President Kallman. Mr. Evans is internationally famous as a plant breeder, and his name is associated with a great many new developments and new varieties of plants. Mr. Evans complimented the Santa Barbara group on its hospitality, which he stated was in the true spirit and tradition of old Santa Barbara.

Tom Sands, vice-president of the California Association of Nurserymen, was introduced.

The main object of the meeting was to witness the cymbidium orchid show which was presented by the Santa Barbara horticultural group, March 27 to 30. Mr. Rogers, of Santa Barbara, manager of the show, gave a number of interesting insights into the presentation of this show. He explained the intricate details which must be accomplished to obtain a good show.

At 9 p. m. President Kallman adjourned the meeting, and everyone proceeded to the state armory to witness the gorgeous display of cymbidiums of all descriptions. Thousands of dollars' worth of blooms alone were arranged in natural settings of full-size oak trees which had been set up inside the large building. The efforts of cymbidium growers from all over the United States, as well as from several foreign countries, were in evidence. Carbone No. 101, the entry of the John Carbone Orchid Nurseries, Berkeley, Cal., won the grand prize for the best cymbidium in the show.

The next meeting of the Tri-County chapter will be held at Ventura, April 25.

L. T. Clearwater, Sec'y.

REDWOOD EMPIRE GROUP HEARS PLANS FOR SHOW.

The forty-third meeting of the Redwood Empire Nurserymen's Association, which was held March 11 at the Bungalow, Santa Rosa, was called to order by President Robert von Grafen. Those members unable to show a posy in their lapels were fined and allowed to contribute to the kitty.

There were thirty-five persons present at the meeting, including two guests. President Von Grafen

STOP, LOOK AND ORDER

these Apple, Pear, Quince and Flowering Crab grafts immediately! This will be our last ad offering same this Spring. We still have a fair selection to offer, but will be planting what we have left within the next few days.

EGYPTIAN NURSERY & LANDSCAPE CO.

Phone 64 Farina, Ill.

Pink Dogwood

Shade Trees

Evergreens

Flowering Shrubs

Fruit Trees in General Line

For 1947 Fall Delivery

Write for Prices

Grow Contracts

1-yr.-old Apple, Cherry, June
Bud Peach, Plum, Apricots, Nec-
tarines, and 1-yr. old Peach.

1948 delivery

RIVERSIDE NURSERY

Hawkersmith & Sons

Winchester, Tenn.

RED RHUBARB

Chipman's Canada Red

\$40.00 per 100, \$325.00 per 1000

Write for prices on larger
quantities. Buy the best.

KEELER'S GARDENS

Sioux Falls, So. Dak.

SURPLUS

STRAWBERRY PLANTS

Dunlap, Blakemore and Gem Ever-
bearing.

Write, Wire or phone collect for
special prices.

ANNA STRAWBERRY NURSERY

F. G. Anderson, Prop.
Phone 340, 299R Anna, Ill.

60,000 GEMZATA

50,000 GEM Everbearing Strawberry plants

Offered for April.

\$11.00 per 1000.

F. O. B. Nursery

Can give prompt shipment from our own cold storages

IT PAYS
TO USE



BOUNTIFUL RIDGE NURSERIES
Princess Anne, Md.

SISK NURSERIES

Winchester, Tenn.

The undersigned, former partner and manager of J. C. Sisk Nursery Co., and my two brothers, William Sisk and Francis Sisk, have purchased the J. C. Sisk Nursery Co., and we are now operating under the trade name of **SISK NURSERIES**.

We are now equipped to render you better and more efficient service than the old business.

Bernard Sisk

CULTIVATED BLUEBERRY PLANTS

1, 2 and 3-year Cultivated
Blueberry plants.

From \$1000.00 to \$2000.00 per acre taken in from this crop this past summer in Eastern states. New Jersey grows more blueberries than the other states combined. The cultivated blueberry originated in this state.

1-yr., well rooted plants, none better anywhere. \$3.00 per doz.; \$18.00 per 100. 2-yr., 8 to 12 ins., \$5.00 per doz.; \$35.00 per 100. 3-yr., 12 to 15 ins., \$8.00 per doz.; \$60.00 per 100. 3-yr., \$12.00 per doz.; \$90.00 per 100. List sent.

Also **Sunset Red Raspberry** plants, heavily rooted, carry special raspberry certificate, \$5.00 per 100; \$35.00 per 1000.

WARREN SHINN, Woodbury, N. J.

SAGE

Broad-leaved Garden Sage,
strong, 1-year plants.

\$5.00 per 100; \$75.00 per 1000.

Prepaid and free packing for cash with order.

PRITCHARD NURSERIES
Ottawa, Kansas

BEARING FILBERT NUTS

100 surplus, 4 to 5 ft., twice transplanted, full fibrous roots. Varieties **Pal** and **DuChilly**, friendly pollinators. Produce the large commercial nut. Regular price \$5.00; purchaser can take all or not less than 10 at \$2.50.

H. H. CORSAN, Hillsdale, Mich.

said the drive for new members should not be relaxed, and a number of names were submitted to the secretary for invitations to the next meeting.

H. C. Prickett, of Prickett's Nursery, Santa Rosa, was again able to attend meetings after an extended illness.

Mr. Silva contributed the suggestion that it would be a good idea to cultivate friendships with various garden clubs, perhaps organizing a speakers' bureau, so that members could present talks on various subjects.

President Von Grafen then turned the meeting over to Joseph Badger, who introduced the speaker, Stuart Fletcher, business manager of the California spring garden show. He read a letter from Howard Gilkey, manager of the show, expressing his regrets that he was unable to attend the meeting and his hopes for an invitation at a later date.

Mr. Fletcher gave the background of previous spring shows. In 1930 the first show was held in an automobile salesroom fronting Lake Merritt. The show was expanded each year, and in 1938 the first district agricultural association was formed. This association was to handle portions of the show money which were matched with equal amounts from the state.

Each year the amount of prize money has increased. Last year it was \$15,000; this year it is expected to be \$25,000. The awards are worked out from a definite plan developed over a period of years and based on general practices at large shows in eastern cities.

Mr. Fletcher also touched on some of the extensive plans for future shows. He hoped there would come a time when the California spring garden show would have such prestige and background that it could present honorable awards or merit certificates comparable to those given by the Royal Horticultural Society of England.

Clyde von Grafen discussed plans to rewrite the premium list for the Sonoma county fair and asked Mr. Fletcher for a letter in regard to the amount and distribution of awards, so that he can work out something suitable for the county fair.

State Director Walter Bennett reported plans to attend a directors' meeting at Fresno.

Leo Ihle was asked to contact a speaker for the next meeting, to be held in the San Rafael area, and Rudy Flynn is to choose the place of meeting.

Ernest E. Munson, Sec'y.

THE NEW PIXWELL

ushers in a new era in **Gooseberry** growing. Easy to pick, hardy, and most productive, the Pixwell puts profit in gooseberries.

ARROWHEAD Strawberry (Minnesota 1118)

is a step forward in high quality strawberry growing. Extra hardy, prolific, and productive.

RUBY Rhubarb

True to name.

Write for prices.

BERGESON NURSERY
Fertile, Minn.

RED LAKE CURRANTS
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PARADISE ASPARAGUS

ANDREWS NURSERY CO.
FARIBAULT, MINN.

FRUIT TREES

HARRISON BROTHERS
NURSERIES

G. Hale Harrison, General Manager
BERLIN, MARYLAND

WE OFFER...

Our General Line of

SMALL FRUIT PLANTS

Let us quote on your requirements.

L. J. RAMBO'S WHOLESALE NURSERIES
Bridgman, Michigan

GARDENERS MEET AT PUGET SOUND NURSERY.

R. R. Williams, proprietor of Puget Sound Nursery, Tacoma, Wash., was host March 5 to a meeting of those in Pierce county interested in landscape gardening. The meeting was sponsored by the county extension service as the second in a series, the first of which was held a year ago, also at Puget Sound Nursery, when identification and characteristics of permanent planting materials were discussed.

Dr. John Snyder, state extension horticulturist, guest speaker at the March 5 meeting, discussed the placing of shrubbery to produce desired effects for sunny and shady exposures. He stressed simplicity of design and an easy flow of the eye from the lawn to the house, with natural types of plantings. Architectural features of buildings and the relation of types of materials for accenting lines or screening objectionable features were also considered. Members of the staff at Puget Sound Nursery demonstrated the correct planting of shrubs and the care and control of permanent plantings by root and stem pruning.

It is hoped that this type of demonstration meeting will be followed by others on making lawns, care of perennials and bulbs and other problems of home beautification. The ultimate goal is a plan for an all-county contest, with prizes for the best landscaped homes of the year.

POOLE'S GARDEN STORE.

A new garden store, completely stocked with seeds, nursery stock and supplies, has been opened by Poole's Seed & Nursery, at Tacoma, Wash. The older Poole's Seed & Implement Co. was one of the first concerns at Tacoma, being founded by F. S. Poole and later continued by his sons, Frank and Clifford.

Arthur L. Poole, present owner, is a grandson of the founder and recently retired from the army with the rank of lieutenant colonel. The new store is housed in an attractive, modern brick building with wide display windows. A novel feature is copper corner, where articles of wrought metal are interestingly displayed.

CALIFORNIA NOTES.

The Christensen Nursery, at Belmont, has announced that as of March 1 it was certified as a pinto tag nursery. This is the first pinto tag nursery in San Mateo county.

The Tri-County chapter of the state nurserymen's association held

SURPLUS

Bush and Climbing Roses

List sent on request.

ALSO THE FOLLOWING ITEMS:

Apple trees, all grades

Pears, Peaches, Plums

Franquette Walnuts

Apple and Pear Seedlings

Mountain Ash, 10 to 12 ft.

European White Birch, 12 to 14 ft.

American Elm

Oaks, Red and Scarlet

Poplars, Carolina and Lombardy

Deciduous Shrubs

Streamliner Strawberries, from 1-year original planting, \$37.50 per 1000; packed 1000 to a case.

Write or wire for quotations.

RICH & SONS NURSERY

ROUTE 4

HILLSBORO, ORE.

OREGON - GROWN ROSES

We have left in storage a good assortment of varieties in all colors. Some climbers.

All No. 1 1/2 grade at
\$40.00 per 100.

Prompt express shipments.

Terms: Cash with order.

(These are all Oregon-grown in good dormant condition).

—As Always—

Oregon's Best Source
of Good Roses

PETERSON & DERING

Rose Growers
Scappoose, Oregon

DEL RANCHO FORTUNA FRUIT TREES and GRAPEVINES

P. O. Box 548
McFARLAND, CAL.

NOTICE

Limited production makes it impossible to book orders for new customers.

HOWARD ROSE COMPANY

Hemet, California

Producing THE WEST'S FINEST Lining-Out ORNAMENTAL STOCK

Most varieties ready for
immediate shipment.

Large color illustrated
wholesale catalog available
on request.



monrovia
Nursery Co.

Duarte Rd. at Myrtle Ave.
P. O. Box 196 Monrovia, Calif.

NURSERY PACKING

Wood Feathers (Baled Red Cedar Shavings) are valuable to use when packing bare roots or deciduous stock for shipment because of their large moisture absorbing capacity. Will keep roots moist in transit or storage. The most economical of packing materials and the easiest to use.

Wood Feathers

MONARCH SHINGLE CO.,
P.O. Box 37, North Portland, Ore.

BALED SHINGLE TOW

(CEDAR SHAVINGS)

WM. A. JOHNSTON

408 Postal Bldg., Portland 4, Ore.

its meeting preceding the orchid show at Santa Barbara, March 28. Orchid growers from England shipped flowering plants by air to the show.

Temple City, which claims it is the home of the camellia, held a one-day celebration honoring the flower. It was climaxed with a large camellia show.

S. ("Syc") Secondi is calling on the trade in the bay area for the Pacific Guano Co., Berkeley.

Common foods grown with the aid of commercial fertilizers have a nutritional value comparable to that of foods produced in soils fertilized solely with manures, according to a report of experimental work recently released by the University of California.

The dates of the meeting of the Pacific States Seedsmen's Association have been changed to May 25 to 27. The site is, as previously announced, at Yosemite National Park.

Governor Earl Warren has asked the legislature for \$1,500,000 for agricultural research and has recommended that an expanded and accelerated program be put into effect as soon as competent personnel can be obtained.

F. Lagomarsino & Sons, seed company, expect to move into new headquarters at 1223 Alhambra road, Sacramento, in June or July. The company will occupy half of a new concrete building now under construction. Western Stores will occupy the other half. Housed here will be the Lagomarsino company's mail-order business, retail store, retail nursery and garden supply departments and warehouse. The nursery at Fifty-fourth and B streets, which is used for the growing of nursery stock and seed cleaning, will be continued at its present site. Louis Lagomarsino is a past president of the California State Nurserymen's Association and is at present the president of the Pacific States Seedsmen's Association. The company was founded by the late Felice Lagomarsino and is now operated by his sons, Peter J., John B., Andrew J. and Louis.

There is now available to nurserymen who must move quantity bags of fertilizers a new tool called the Par Sacklifter. It is said that the tool will not tear sacks; yet it grips them securely and lets go easily. It is made of stainless steel and weighs only about one pound.

The Superior California Nurserymen's Association held its monthly meeting at the Alhambra restaurant, Sacramento, March 19. The speaker was John Wells, from the speakers' bureau of the Sacramento chamber of

PORTLAND WHOLESALE NURSERY CO.

306 S. E. 12th AVENUE Avery H. Steinmetz PORTLAND, OREGON

Quality Stock

CONIFERS AND BROAD-LEAVED
EVERGREENS
SHADE AND FLOWERING TREES
FRUIT TREE SEEDLINGS
FRUIT TREES
DECIDUOUS SHRUBS
VINES AND BULBS
PORTLAND ROSES

Our shipping for Season 1946-47 is now practically over, and we wish to thank our customers for the large volume of business entrusted to us. We hope to improve our service and our quality of stock during 1947-48.

Write for our Catalog

A. MCGILL & SON

FAIRVIEW, OREGON

Wholesale Only

GOOD WESTERN-GROWN NURSERY STOCK

Fruit Tree Seedlings
Flowering Ornamental Trees
Shade Trees

Grown right and packed right.

Combination carloads to Eastern distributing points will save you on freight.



We still have quite a number of Camellias, Rhododendrons, Specimen Boxwood, Nandinas and Green Aucubas. Will try and fill your needs on other stock in smaller quantities.

F. A. DOERFLER & SONS

150 N. Lancaster Dr. Salem, Ore.
Phone: 21175 Salem

MILTON NURSERY CO.

MILTON - Since 1878 - OREGON

Flowering, Ornamental and Shade Trees

Oregon and Washington-grown
Fruit Tree Seedlings

APPLE SEEDLINGS

Per 1000

No. 1, 3/16 to 1/4-in., branched... \$25.00
No. 2, 2/16 to 3/16-in., branched 18.00
No. 3, about 2/16-in. 12.00
No. 3, 3/16 to 5/16-in., liners... 18.00
No. 2, 2/16 to 3/16-in., liners... 14.00

PEAR SEEDLINGS

1/4-in. and up, branched... 32.00
No. 1, 3/16 to 1/4-in., branched... 28.00
No. 2, 2/16 to 3/16-in., branched 20.00
No. 3, about 2/16-in. 14.00

Our Combination Carlots to Eastern Distributing Points assure minimum transportation cost.

Use your letterhead for correspondence.

WANT LIST

Lining-out seedlings. Quote prices, grades and age.

Tilia cordata (small-leaf)

Tilia platyphyllos (large-leaf)

DOTY & DOERNER, Inc.

6691 S. W. Capitol Highway

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**Wholesale Growers
of
General Nursery Stock**

NURSERY LABELS

IN

25c PACKSTHE EFFICIENT WAY TO
MERCHANDISE LABELS

Two Hundred 25c Packs That Retail
for \$50.00 Cost You \$25.00, Less 5%
If You Mail Check With Order.

CARSCALLEN

Nursery Label Company
65 WEST UNION ST., PASADENA, CALIF.

	Per 100
Ponderosa Pine, 8 to 12 ins., T...	\$15.00
Black Hills Spruce, 8 to 12 ins., T.	17.50
Tatarian Honeysuckle, liners, 8 to 12 ins.,	5.50
Common Lilac, liners, 8 to 12 ins.	6.50
	Per 1000
Caragana, 18 to 24 ins.,	\$15.00
Latham Raspberries, No. 1, extra- good roots and tops,	45.00
Juniper Scopulorum, liners, 3 to 5 ins.,	35.00
Washington Asparagus, 2-yr., No. 1	15.00
Washington Asparagus, No. 2...	12.50
	Each
Chinese Elm, 6 to 8 ft.,	\$1.00
Chinese Elm, 8 to 10 ft.,	1.50

TREADWELL NURSERY CO.

Great Falls, Mont.

**"GRO-QUICK" ELECTRIC SEED
BED HEATER****BOTTOM HEAT CAN'T BE BEAT**

For Early Plant Starting
For High Germination
For Fast Growth
For Rooting Cuttings

**GET ALL THE FACTS NOW**

Send today for free new instruction
sheet with plans and experience reports
from users in your line of business.
GRO-QUICK will substantially increase
your profits.

"GRO-QUICK" 386 W. Huron St.
Chicago 10, Ill.

commerce, who spoke on the Sacramento-Yolo ship channel, a project which, if completed, would give Sacramento deep-sea dockage via San Francisco bay.

The quarantine of citrus because of the quick decline disease, which was discussed in California notes in the March 1 issue of the American Nurseryman, has gone into effect as of March 1.

R. R. Lockhart, who recently returned from the army, is now in charge of the Lockhart Seed Store, at Bakersfield. His brother, Reed Lockhart, is managing the company store at San Jose.

Emilio and Silvio Massolo and their father, Antonio, have filed suit against Max Schmidt and L. C. Smith, San Mateo contractors, for \$16,000 damages. They charge that Smith has been hauling dirt from Schmidt's property near their 15-acre flower farm and nursery and claim damage to both their plants and their health.

The 4-month-old son of Milton Scott, Redwood City greenhouse employee, lost an eye when a piece of metal fell from a shelf over its crib and struck the child on the head.

Harold H. Hyde, for many years a director and active manager of the California Fig Institute, has resigned to devote all his time to his own business. No successor has been appointed, and the directors have asked Mr. Hyde to give as much time to the work which he has been doing as he can until a successor can be found.

A small, moderate-priced tractor which will be suitable for nurserymen and florists will soon be put on the market by the Food Machinery Corp., San Jose.

The Pacific Greenhouse Co. is expanding its factory at Redwood City. After alterations have been completed, the company will have doubled its floor space. One of the new items being featured is a prefabricated greenhouse, which will retail for about \$6,000.

Exhibit space at the Oakland flower show is all sold. Exhibits are housed in a large tent, and it is necessary for the public to pass the exhibits when entering or leaving the flower show and the gardens. An attempt is being made to secure a similar tent to take care of the applications for exhibits which could not be accommodated in the original plans.

The California state legislature has voted the last Friday in April of every year as Arbor day, not the last Friday of each year, as stated in the meeting report of the Central California Nurserymen's Association in

PACIFIC COAST NURSERY

2244 N. Skidmore Ct.

Portland 11, Ore.

Pioneer seedling growers on the Pacific Coast since 1914.

Specializing in fruit tree seedlings. Angers Rooted Quince Cuttings, Chinese Elm Seedlings, Norway Maple Seedlings and English Privet.

We also have Norway Maples, 3-yr. branched, and Norway Whips and E. W. Birch, 3 yrs. old, well branched.

We aim to please with quality stock.

John Holmason & Sons, Props.

MYROBALAN SEED**LOVELL PEACH PITS**

Nation's Leading Source
Write today for quotations.

California
NURSERY COMPANY
Niles, California

PEACH PITS**CALIFORNIA LOVELL SEEDS**

Also

Apricot and Myrobalan Seeds.

1947 Crop.

By ton or car.

Write for prices.

GRAY NURSERIES

P. O. Box 498

Elverta, Calif.

Send for Our Seed List.**A. B. C.**

**"Supreme" Quality
SEEDS — PLANTS — BULBS**
and

Growers' Accessories

AMERICAN BULB CO.

1335 W. Randolph St. CHICAGO 7
31 W. 27th St. NEW YORK 1

SEEDS

Collectors of Tree, Shrub and
Wild Flower Seeds

Crude Drugs and ornamentals

E. C. MORAN Stanford, Mont.

the April 1 issue of the American Nurseryman.

Ray Hartman, of Leonard Coates Nurseries, Inc., San Jose, gave a talk on newer roses to the Santa Clara County Rose Society.

In San Mateo county, a branch of the American Rose Society is being established. As a first project for this group, it is planned to have the city of San Mateo set aside grounds for a rose garden, which is to be a living memorial for those who died in the last war.

When H. A. Hyde, of Watsonville, cannot be found at his nursery, it is likely that he can be found in his acre of gardens of native plants near the top of the Hecker pass in the Redwood area near Watsonville.

The Camellia Society of Sacramento held its annual show in the Hall of Flowers at the state fairground, March 8 and 9. The following week, the San Francisco group held its show in the rotunda of the City Hall.

P. Rudnick, owner and operator of Rudnick's Seed Store, Willowbrook, has moved to his new quarters at 12720 Willowbrook road. In addition to nursery and garden supplies, he carries a complete line of pet and poultry supplies.

The Gloria Gardens Nursery, Clearwater, is expanding to conduct contract care of small homes. Three jeeps have been equipped to carry on the organization's spraying, fertilizing and soil fumigation activities.

Peter Vistica has opened a new and modern flower store and nursery on El Camino Real, San Mateo.

Sid Whitehorn, owner and operator of the Sierra Nursery & Seed Co., Fresno, reports that the current spring trade has been larger than ever before and that the shortage of good help has been the limiting factor in his operations. W. B. B.

FOR SALE—Plant-growing business, seed store in Maryland. Well established and profitable; good house; land and frames; fully stocked and equipped; reasonably priced. HORTICULTURAL REALTY CO., 136-39 Northern Blvd., Flushing, N. Y.

FOR SALE—Old, established retail greenhouse and nursery, landscaping, 13 city lots; florists' business; 7-room modern home; bulb cellar; greenhouse and nursery well stocked. Immediate possession. Moderately priced. Death in family reason for selling. Mrs. Geo. E. MacComber, 441 N. 66th Ave., W., Duluth 7, Minn.

FOR SALE—Established nursery, 30 miles from center of Philadelphia, about 5 acres young salable stock, more than 800-ft. frontage on cement highway, 36 acres in tract; doing good business; wonderful opportunity to increase business; large barn, tool shed, no living quarters; \$11,500.00 stock at inventory. WALDO MILLER, 402 Walnut St., Spring City, Pa.

FOR SALE—Nursery, greenhouses and florists' business, established for 25 years; well equipped and stocked; 72 acres; 10-room house, 5-room apartment started; excellent opportunities; located 5 miles west of Lansing, Mich., 3 blocks off U. S. 27. About \$75,000.00.

MILLET NURSERY & GREENHOUSES
Box 91, R. F. D. 3, Lansing, Mich.

WANT ADS

Help and Situation Wanted and For Sale advertisements.

Display: \$3.00 per inch, each insertion. Lines: 25¢ line; minimum order \$2.00

HELP WANTED

Immediate opening for a full-time propagation foreman to take charge of all propagating and growing on. Location, Upper Westchester county, near small village, ten miles from Greenwich, Conn. Liking for small-town and country life essential. Must be capable of handling men and thoroughly versed in all kinds of ornamental nursery stock and propagation of same, and be able to drive car.

For a married man, modern house consisting of five rooms, tile bath, hot-water heat, fireplace; also garage. Available for immediate occupancy.

Apply in writing; make no personal calls, stating complete experience, references and when personal interview can be arranged.

TROY'S NURSERIES, INC.
257 Mayflower Ave., New Rochelle, N. Y.

HELP WANTED

At once, by well established progressive western Pennsylvania nursery. A young ambitious man with nursery and horticultural experience who has a thorough knowledge of soil management, grafting, rooting cuttings and so forth. Also, one who can act in an executive capacity in the many lines involved in the nursery business. A very attractive proposition for one who can qualify. State full details. Address Box 488, care of American Nurseryman.

HELP WANTED

Landscape designer to draw plans, make estimates and supervise jobs in growing landscape, nursery and floral business. Good pay; year-around work.

BUTTERNUT CREEK NURSERY
R.D. 2, Fayetteville, N. Y.

MANAGER WANTED

At our Richmond, Indiana, nursery. Only capable man experienced in growing evergreens and handling men will be considered. Exceptional opportunity for the right man. All applications will be held confidential. State age and experience in first letter.

JACKSON & PERKINS CO.
Newark, N. Y.

SITUATION WANTED

Experienced nurseryman, with a knowledge of most of the plants in the United States and of most nurserymen, is interested in a permanent position with a progressive concern. Experienced in sales and office management, production and mail-order operations. Age 30. Address Box 489, care of American Nurseryman.

FOR SALE

In northern Pennsylvania, flourishing landscape and road-construction business, with 1 1/4 acres of display grounds, office buildings and garages; well equipped with tools, trucks and machinery; price, \$35,000; owner wants to retire and leave city. For further information, address Box 487, care of American Nurseryman.

FOR SALE

Our entire nursery business. On account of illness we are sacrificing our long-established nurseries (two). Ideal locations on highways 100 and 119, respectively. Well stocked; 14 acres of rich black loam; office building and equipment. Immediate possession.

OWNER

Box 66, Westchester County,
Hartsdale, N. Y.

FOR SALE

Nursery in New Jersey, in South Jersey, between Philadelphia and Atlantic City. 10 acres of better-grade stock. Modern bungalow-type home with all conveniences, including fireplace, 2-car garage, combination barn and shed; also large single-room building with stone fireplace. A real jewel in a compact setting; a home and business combined. Original owner. \$40,000.00.

GEORGE E. MOEBIUS
Turkey Foot Nursery
Blackwood, N. J.

FOR SALE

Nursery and flower shop, established 38 years, located near San Francisco on direct route between San Francisco and Los Angeles. 5-room dwelling on property. Grossed over \$50,000.00 in 1946. Terms. If interested write. No agents. Address Box No. 484, care of American Nurseryman.

FOR SALE

Landscape nursery, catering to high-class clientele. Established 36 years; located in central Michigan, within 75 miles of Detroit. Nursery contains 71 acres: 50 in specimen stock, both evergreen and deciduous. About 15 acres fine wood lot. 8-room bungalow; all modern conveniences, electricity, running water, hot-water heat. Greenhouses, shipping room, etc. Completely equipped office, with drawing boards, transit, files, etc. Soil nearly all clay loam, perfect for balling. Very high reputation for landscape work. Wonderful opportunity for young people. Owner (75) wishes to retire. For further particulars Address Box 486, care of American Nurseryman.

FOR SALE

Going nursery in growing city of 50,000, northwestern state east of the Rocky mountains. 8 acres of splendid land at edge of city limits. Wonderful opportunity. Owner wishes to retire. Address Box 490, care of American Nurseryman.

CLASSIFIED ADS

25 cents per line.

Minimum order, \$2.00.

BERRY PLANTS

PIXWELL GOOSEBERRIES AND NEWBURY, RUDDY, LATHAM AND CHIEF RASPBERRIES. All Raspberries No. 1, heavy, \$50.00 per 1000. Pixwell Gooseberries, 2-yr., heavy, \$30.00 per 100, 2-yr., light, \$15.00 per 100. Schwab Gooseberry, new seedling, world's largest gooseberry, berries often 1 1/4 in. in diameter, highest quality, hardy, productive, 1-yr. heavy, \$7.50 per 10. Arrowhead, New Minn., 1118 Strawberry, very firm, extremely hardy, \$40.00 per 1000, 10 per cent discount for cash. The Pixwell Gooseberry, originated by Dr. Yeager, of the North Dakota experimental station, is on the recommended fruit list of Minnesota and the Dakotas and will soon be the leading variety. According to the North Dakota station bulletin, Pixwell bears 50 per cent more than Carrie, and the berries are about twice as large. Bush is vigorous, extremely hardy; berries of super quality, sweet, easy to pick, can be eaten out of the hand. Blossoms and berries will stand 18 degrees Fahr. frost and bear 100 per cent crop. Such a frost will practically kill nearly all other fruits.

SCHWAB FRUIT FARM & NURSERY
220 N. Fifth St. Mankato, Minn.

CULTIVATED BLUEBERRY PLANTS
Returns last summer were from \$1000.00 to \$2000.00 per acre for the growers of these berries. 1-yr. plants, \$3.00 per doz.; \$18.00 per 100. 2-yr., 8 to 12 ins. high, \$5.00 per doz.; \$35.00 per 100. 2-yr., 12 to 15 ins. high, \$8.00 per doz.; \$60.00 per 100. 3-yr., \$12.00 per doz.; \$90.00 per 100. List sent.

WARREN SHINN, Woodbury, N. J.

STRAWBERRY PLANTS

Dunlap, \$7.00 per 1000. Blakemore, Big Joe, Premier, Dorsett, \$8.00 per 1000. Fresh-dug, young healthy plants grown on new ground. Shipped same day order received or when wanted.

LITTLE OZARK PLANT FARMS
Cobden, Ill.

STRAWBERRY PLANTS

Certified, hardy Northern-grown Dunlap, \$7.50 per 1000; 10,000 and up, \$7.00 per 1000. Premier and Bellmar, \$16.00 per 1000. These are young, healthy, freshly dug plants, packed to reach in good condition.

IOWA NURSERY, Farmington, Iowa

STRAWBERRY PLANTS Per 1000
Brunes Marvel Everbearing, \$15.30
Gem Everbearing, 12.00
Senator Dunlap, 7.00
Robinson, 8.00

DOLLAR NURSERY, Bloomfield, Iowa

RED SUNRISE RASPBERRY PLANTS
Superb stock, heavily rooted. Carry special New Jersey Raspberry certificate. None better. \$5.00 per 100; \$25.00 per 1000.

WARREN SHINN, Woodbury, N. J.
Nurseryman for 40 yrs.

Dunlap, Blakemore, Aroma and Klondike Strawberry plants, \$5.75 per 1000; \$60.00 for 10,000. Plants state inspected, irrigated, guaranteed to reach you in good growing condition.

RILEY'S NURSERY, Concordia, Kansas

Special WEYMOUTH BLUEBERRY PLANTS
2-yr., \$15.00 per doz.

WARREN SHINN, Woodbury, N. J.

BULBS and TUBERS

30,000 DAHLIA ROOTS.

We offer strong divisions, best cut-flower varieties that stand hot, dry weather. They produce largest and most blooms for you.

Each
6000 Heart of Milwaukee, dec., golden / bronze, 25c
5000 Kentucky Sun, dec., golden yellow, 25c
5000 City of Wellington, dec., wine-red, 25c
5000 Rose Glory, dec., deep rose-pink, 25c
1000 Frances LaRocco, dec., canary-yellow, 30c
500 Ave Maria, dec., orchid-lavender, 10c
5000 Florists' mix., all colors and types, 10c
1000 Amber Queen, pompon, amber and apricot, 15c
Special: 12 each above, 55 roots for only \$19.95.

Rush order today. Terms: Cash with order, please.

PAYNE DAHLIA FARM
Rt. 5, Kansas City, 3, Kan.

GLADIOLUS BULBS.

State inspected—Highest quality.
Prices per 1000
Mixed (good varieties), \$22.50 \$18 \$15 \$13
Named Color Varieties, 25.00 20 16 14
Cash with order, please.

F.O.B. Benton Harbor, Mich.
MICHIGAN GLADIOLUS FARM
R. No. 1, Benton Harbor, Mich.
"Where Michigan's Finest Gladioli Grow"

IRIS KAEMPFERI

The modern orchid of the garden. This great gift of the Orient has become a must for all outdoor gardeners.

Large divisions of choice varieties in mixed colors: \$5.00 per 25, \$16.00 per 100 and \$148.00 per 1000.

HEMEROCALLIS

Kwanse Flore Plena, the only double Day Lily known. Prize-winner of the Royal Horticultural Society. Large double, rich golden-bronze flowers, 3 to 4 ft. tall, bloom July and August. Blooming-size clones.
\$5.00 per 25, \$16.00 per 100 and \$148.00 per 1000.

Cash with order please

BROOKFIELD GARDENS

Route 6, Delaware, N. J.
TUBEROSES, blooming-size bulbs. Double Pearl and Single mixed, \$20.00 per 1000. Bublites, \$5.00 per 1000. Hybrid Amaryllis, blooming-size, \$3.00 per 10; Dahlias, cut flower types, \$25.00 per 100.

SPARKMAN'S GARDENS

Route 1, Scottsboro, Ala.

CANNAS, SELECT STOCK

200,000 The President, rich scarlet; 4 ft. green foliage; carefully grown under our personal supervision, guaranteed true to name; strong 2 to 5-eye divisions, liberally graded; \$5.00 per 100; \$40.00 per 1000.

MRS. CHARLIE ROBINSON, Greenville, Ga.

HEMEROCALLIS

Surplus plants, strong divisions, 14 different varieties, not labeled, but kept separate. \$15.00 per 100. Cash with order please.

LOUIS C. SCHULZ

750 Flint St., Lake Orion, Mich.

CANNA BULBS, \$5.00 per 100; \$4.00 per 1000.
Hungaria (tall pink), King Humbert (red), The President (red), Wyoming (yellow), Pennsylvania (orange and red).

BENTON COUNTY NURSERY CO., INC.
Rogers, Arkansas

Best varieties, healthy, clean, blooming-size Daffodils, Narcissus and Jonquills, mixed, \$25.00 per 1000, \$40.00 per 2000. Sample, \$3.00 per 100.

MRS. CHARLIE ROBINSON, Greenville, Ga.

100,000 CANNAS

Best varieties, mixed, healthy strong roots with plenty of eyes, liberally graded. \$20.00 per 1000; sample 100 for \$2.00.

MRS. CHARLIE ROBINSON, Greenville, Ga.

EVERGREENS

LINING-OUT STOCK

American Arborvitae, 2-2, 6 to 10 ins. \$ 80.00
Balsam Fir, 2-2, 6 to 10 ins. 30.00
Balsam Fir, 2-3, 4 to 6 ins. 75.00
Balsam Fir, 2-3, 8 to 10 ins. 110.00
Douglas Fir, 2-0, 2 to 5 ins. 30.00
Jack Pine, 2-0, 14 to 16 ins. 32.50
Norway Pine, 2-0, 4 to 6 ins. 25.00
Norway Pine, 2-1, 6 to 8 ins. 48.00
Norway Pine, 2-2, 7 to 12 ins. 75.00
Norway Pine, 2-3, 18 to 24 ins. 250.00
Western Yellow Pine, 2-0, 4 to 6 ins. 25.00
Western Yellow Pine, 2-1, 5 to 7 ins. 48.00
White Pine, 2-10, 2 to 4 ins. 20.00
White Pine, 2-1, 4 to 6 ins. 40.00
White Pine, 2-2, 6 to 10 ins. 80.00
Black Spruce, 2-1, 3 to 7 ins. 45.00
Black Hills Spruce, 2-0, 2 to 4 ins. 30.00
Black Hills Spruce, 2-3, 6 to 10 ins. 80.00
Black Hills Spruce, 2-3, 8 to 12 ins. 110.00
Black Hills Spruce, 2-3, 10 to 14 ins. 120.00
Engelmann Spruce, 2-2, 4 to 7 ins. 75.00
Engelmann Spruce, 2-3, 6 to 8 ins. 80.00
White Spruce, 2-2, 4 to 6 ins. 70.00
White Spruce, 2-3, 8 to 12 ins. 95.00
Northern Red Cedar, 2-2, 5 to 7 ins. 80.00
Northern Red Cedar, 2-3, 6 to 9 ins. 90.00

Note: 250 at 1000 rate.
For smaller quantities add \$1.00 per 100.
Key: 2-2: 2-year seedling.
2-3: 2-year seedling, transplanted 2 years, making plant 4 years old.

LINING-OUT STOCK

Each Per 100
Mugho Pine, XX, 8 to 10 ins. \$50.00 \$55.00
Mugho Pine, XX, 10 to 12 ins. .90 85.00
Colorado Blue Spruce, XX,
12 to 18 ins. 2.00 195.00
18 to 24 ins. 2.75 250.00
White Spruce, XX, 12 to 18 ins. .85 80.00
White Spruce, XX, 18 to 24 ins. 1.10 115.00
White Spruce, XX, 24 to 30 ins. 2.50 245.00
Black Hills Spruce, XX,
12 to 18 ins. .85 80.00
18 to 24 ins. 1.50 145.00

GIRARD BROS. NURSERY

Geneva, Ohio

LINING-OUT STOCK

Per 100
White Spruce, xx, 12 to 18 ins. \$ 75.00
White Spruce, xx, 18 to 24 ins. 100.00
Platte River Juniper, xx, 12 to 18 ins. 85.00
Platte River Juniper, xx, 18 to 24 ins. 130.00
Scopolium Juniper, 3-yr. S, 3 to 6 ins. 10.00
Communis Juniper, 3-yr. S, 3 to 6 ins. 10.00

Per 1000
Barberry Thunbergi, 1-yr. S, 3 to 6 ins. \$20.00

We manufacture crating lumber, direct from forest to you; let us know your requirements.

TUNNEY & SON NURSERIES

Kenosha, Wis.

LINING-OUT STOCK

Immediate delivery. Write for 1947 wholesale price list. Over 275 varieties of hardy Chrysanthemums. All stock grown right—graded right—packed right—shipped promptly.
APRICOT Seedlings (Blenheim)

Per 100 Per 1000

Leading canning and shipping hardy apricot; grows and fruits well from seed.

1/4-in. \$4.00 \$35.00

3/16-in. 3.50 30.00

2/16-in. 2.50 20.00

ROSA MULTIFLORA (Thorny Japanese Rose)

2 to 3 mm. bushy 1-yr. sdigs. 2.95 25.00

ENGLISH OAK (Quercus Robur)

6 to 12 ins., 2-yr. sdigs., L. O. 3.00 25.00

12 to 18 ins., 2-yr. sdigs., L. O. 4.50 40.00

18 to 24 ins., 2-yr. sdigs., L. O. 5.50 50.00

2 to 3 ft., 3-yr. sdigs., L. O. 7.50 70.00

3 to 4 ft., 3-yr. sdigs., L. O. 8.00 85.00

4 to 6 ft. 4-yr. sdigs., L. O. 12.50

BUDDLEIA (Everblooming Butterfly Bush)

DUBONNET, 8 to 12 ins.

2-in. pots 10.00 90.00

(Write for wholesale price list of other Buddleias)

FORSYTHIA SPECTABILIS (Giant Showy Golden Bell)

4 to 6 ins., 1-yr. ctg., L. O. 3.00 25.00

6 to 12 ins., 1-yr. ctg., L. O. 4.00 35.00

12 to 18 ins., 1-yr. ctg., L. O. 5.00 45.00

18 to 24 ins., 1-yr. ctg., L. O. 6.00 55.00

PRIVET, AMUR RIVER NORTH (Ligustrum Amurense)

4 to 6 ins., 1-yr. ctg., L. O. 2.50 20.00

6 to 12 ins., 1-yr. ctg., L. O. 3.25 27.50

12 to 18 ins., 1-yr. ctg., 3 br. 4.50 40.00

12 to 18 ins., 1-yr. field-gr. 4.25 37.50

12 to 18 ins., 1-yr. ctg., 2 br. 5.00 45.00

PRIVET, CALIFORNIA (Ligustrum Ovalifolium)

4 to 6 ins., 1-yr. ctg., L. O. 2.00 15.00

6 to 12 ins., 1-yr. ctg., L. O. 2.50 20.00

9 to 12 ins., 1-yr. 3 br. 3.50 30.00

12 to 18 ins., 1-yr. ctg., L. O. 3.25 27.50

12 to 18 ins., 1-yr. 2 br. 3.75 32.50

LONICERA FRAGRANTISSIMA (Fragrant Winter Honeysuckle)

4 to 6 ins., 1-yr. ctg., L. O. 3.00 25.00

6 to 12 ins., 1-yr. ctg., L. O. 3.50 30.00

12 to 18 ins., 1-yr. ctg., L. O. 4.50 40.00

12 to 18 ins., 1-yr. 3 br. 6.00 55.00

12 to 18 ins., 1-yr. ctg., L. O. 4.50 40.00

18 to 24 ins., 1-yr. 3 br. 8.00 75.00

GOLDEN SPIRAEA (Physocarpus Opulifolius Luteus)

6 to 12 ins., 1-yr. ctg., L. O. 3.50 30.00

SPIRAEA VANHOUTTEI (Van Houtte Spiraea)

6 to 12 ins., 1-yr. ctg., L. O. 3.50 30.00

12 to 18 ins., 1-yr. ctg., L. O. 4.50 40.00

TAMARIX AFRICANA (African Tamarix)

4 to 6 ins., 1-yr. ctg., L. O. 3.00 25.00

6 to 12 ins., 1-yr. ctg., L. O. 4.00 35.00

12 to 18 ins., 1-yr. ctg., L. O. 5.00 45.00

WEIGELA ABEL CARRIERE (Everblooming Rose W.)

6 to 12 ins., 1-yr. ctg., L. O. 4.50 40.00

12 to 18 ins., 1-yr. ctg., L. O. 5.50 50.00

WEIGELA ROSEA (Rose Weigela)

4 to 6 ins., 1-yr. ctg., L. O. 2.50 20.00

6 to 12 ins., 1-yr. ctg., L. O. 3.50 30.00

12 to 18 ins., 1-yr. ctg., L. O. 4.50 40.00

GOLDEN ELDER (Sambucus Aurea)

12 to 18 ins. 3.50 30.00

18 to 24 ins. 4.50 40.00

CUT LEAF ELDER (Sambucus Acanthifolia)

12 to 18 ins. 3.00 30.00

12 to 18 ins. 4.00 35.00

18 to 24 ins. 5.00 45.00

BOHLENDER NURSERIES CO.

Box AN-1, Tipp City, Ohio

ROOTED CUTTINGS FOR SPRING

\$5.50 per 100, \$50.00 per 1000.

Taxus Repandens
Taxus Cupidata, spreading
Taxus Hickii
Taxus Nana Femina
Taxus Pyramidalis
Thuja Wareana
Thuja Globe
Ilex Convexa (Bullata)
Ilex Crenata Microphylla
Juniperus Pfitzeriana
Juniper, Savin (Sabina Jun.)
Retinispora Plumosa Aurea (Gold Dust)
Retinispora Plisifera Aurea Per 100
Taxus Washingtoni (golden) \$12.00
Taxus Hatfieldi 10.00
Taxus Intermedia 12.00
Taxus Compacta 10.00
Taxus Cusp. Nana Brevifolia 10.00
Taxus Cusp. Capitata 15.00
Taxus Cusp. Henryi 15.00
Thuja Elegansissima 10.00
Thuja Rosenthalii 10.00

We have other varieties in smaller quantities; send us your want list.

GREENBROOK NURSERIES, INC.

Bound Brook, N. J.

LINING-OUT STOCK

Per 100 Per 1000

Taxus Cupidata Capitata

6 to 8 ins. (Hvy), 2 1/2-in. pots \$25.00 \$220.00

Taxus Cupidata, 6 to 8 ins.

(Heavy), 2 1/2-in. pots 25.00 220.00

Cash with order. Free packing.

STROHL'S NURSERY

1404 N. Anthony Blvd. Fort Wayne, Ind.

IMPORTED HARDY LINING-OUT STOCK

	10 to 50 to	
	49, 100,	
	each each	
Acer Pal. Atropurpureum		
1-yr. X, layers, 10 to 15 ins.	\$1.35	\$1.25
Azalea Pontica (Hardy Ghent),		
our selection of named varieties.		
2 to 3-yr. grafts, 10 to 12 ins.	1.50	1.35
Azalea Mollis Comte De Quincy		
(yellow)		
2 to 3-yr. grafts, 10 to 12 ins.	1.50	1.35
Azalea Mollis Hybrida,		
named varieties.		
2 to 3-yr. grafts, 10 to 12 ins.	1.50	1.35
Azalea Mollis, C. Van Tol		
(clear red), Hugo Hardyzer		
(bright red), Babeuf (orange-		
red shaded salmon),		
8 to 10 ins.	.85	.75
Magnolia Alexandrina, Lesnel,		
Soulangiana, Speciosa, Nigra,		
layers, 12 to 18 ins.	1.25	...
Pieris Japonica (Andromeda),		
12 to 15 ins.	1.35	1.25
Rhododendron Hybrida, Album		
Elegans, Caractacus, Carvallo,		
Catawbiense Grandiflorum, Ev-		
erestianum, Goldman, Ignatius		
Sargent, Lord Roberts, Parsons,		
Roseum Elegans, Roseum Su-		
perbum, 2 to 3-yr. grafts,		
10 to 18 ins.	1.50	1.35

This stock is expected to arrive about the first of April. It will be regraded and repacked. Only high-grade stock shipped to us and to you. Please send cash with your order.

JOHN VERMEULEN & SON, INC.
Westbury, L. I., N. Y.

CAMELLIAS (Japonicae)

Standard varieties, such as: Alba Plena, Chandleri Elegans, Hermes, Monarch, Otome, Pink Perfection, Prof. Sargent, Madam Adele, Cheerful, Sarah Frost, Anna Frost, Jarvis Red, Lee's Pink, Elizabeth, Abby Wilder, Countess of Orkney, Rose Emery, Glory Denantes, Brilliant.

10 to 18-inch.....\$1.25 ea.
Rooted cuttings, mixed labeled, \$25.00 per 100, or \$225.00 per 1000.

Rare Camellias, such as: Debutante, Purple Dawn, Alba Superba, Gigantea, Kumaska variegated, Laurel Leaf, Dalkagura, C. M. Hovey, Fanny Bolls, Nagasaka, Pink Star, Snowdrift, Vittorio Emanuele, Glen 40, Rose Dawn, Lord Robert, Firey, Marchioness of Exeter, Rev. John Bennett.

10 to 18-inch.....\$2.25 each
Rooted cuttings, mixed labeled, \$45.00 per 100, or \$400.00 per 1000.

We have 200 additional rare varieties in small quantities.

Check with order.
NATIONAL NURSERIES
Dept. 26, Biloxi, Miss.

CAMELLIAS

Pink Perfection and Purity, 2-yr. plants, container-grown from 3 1/4-in. pots, with a tremendous compact root system, 10 to 15 ins. tall. Excellent greenhouse type of plants for corsage flower growing. Ready for 5 or 6-in. pots. We want you to become one of the many steady customers like others who have become familiar with Tormey's top-quality Camellias and we make this offer for immediate acceptance. We will ship by express prepaid 50 of the above plants, consisting of 25 of each variety for \$60.00; or 100 plants, consisting of 50 of each variety for \$100.00. (Only 1000 of each variety are available on this real deal, and we urge immediate ordering.) Remember, we pay the express.

TORMEY'S GARDENS

Temple City, Calif.
Growers of Fine Camellias Exclusively.
The Best from the Far West.

AZALEAS AND RHODODENDRONS

	Per 100
Hinodegirl, bench-grown tr.	\$17.50
Hexe, bench-grown tr.	17.50
Hinodegirl, bed-grown, 3 to 5 ins.	20.00
Hexe, bed-grown, 3 to 5 ins.	20.00
Mollis, 2-yr. tr.	15.00

RHODODENDRONS

Catawbiense, Ponticum and Discolor	25.00
hybrida, 2-yr. tr.	25.00
50 of a variety, minimum order; packed free. Orders of less than 50, add 20 per cent packing charge. Cash with order, please. N. C.O.D. orders.	

RICHARD P. RESSEL, Mulino, Ore.

Pinus resinosa (Red Pine), XX,	Per 100
16 to 30 ins.	\$20.00
Pinus resinosa (Red Pine), XXX,	
14 to 20 ins.	35.00
Picea glauca (White Spruce), 4-yr.,	
2 to 5-in. seedlings.	3.00
Picea pungens (Colorado Blue), 4-yr.,	
3 to 6-in. seedlings.	3.00
Pseudotsuga taxifolia (Douglas Fir),	
3-yr., 3 to 6-in. seedlings.	3.50

SUNCREST EVERGREEN NURSERIES
Johnstown, Pa.

EVERGREENS in car or truckloads. See page 17 of the February 15 issue of the American Nurseryman.

WAYNESBORO NURSERIES
Waynesboro, Virginia

LINING-OUT STOCK

	Per 100	Per 1000
Pachysandra Terminalis	\$4.00	\$40.00
Red Jap. Maple, pot gr., grafts	75.00	...
Andromeda Jap., pot gr., R.C.	25.00	200.00
Taxus cuspidata, 1-yr. bedded	15.00	125.00
Taxus capitata, 1-yr. bedded	25.00	...
Taxus Hickel, 1-yr. bedded	15.00	125.00
Taxus Halford, 1-yr. bedded	17.50	150.00
Taxus brevifolia, 1-yr. bedded	20.00	...
Tsuga Canadensis, 2-yr. tr.	7.00	60.00

Complete list of liners, including Azaleas, Rhododendrons, etc., on demand.

VERKADE'S NURSERIES, Wayne, N. J.

CAMELLIA PLANTS, 30c

One-year plants with heavy root system, 6 to 8 ins. tall.

Ellen McKinsey, double pink spotted white.

Duchesse de Rohan, fluffy peony-type pink.

Duchesse de Caze, double white variegated pink.

Bolens 106, double red.

Also mixed Sasanquas, 6 to 12 ins., 25c.

Also mixed Camellias, 6 to 12 ins., 25c.

Do not order less than 10 of a variety.

Dora McCarter, single white.

FAIRCHILD CAMELLIA GARDEN
5320 De Siard Monroe, La.

LINING-OUT STOCK

	Per 100	Per 1000
Taxus cuspidata	\$20.00	\$180.00
1-yr., 2-in. pot.	25.00	225.00
1-yr., 3-in. pot.	25.00	225.00
8 to 10 ins. tr.	35.00	325.00
Taxus intermedia		
1-yr., 2 1/4-in. pot.	20.00	180.00
1-yr., 3-in. pot.	25.00	225.00
Taxus media hickel		
1-yr., 2-in. pot.	20.00	180.00
1-yr., 3-in. pot.	25.00	225.00
8 to 10 ins. tr.	35.00	325.00
10 to 15 ins. tr.	50.00	...

COTTAGE GARDENS, Lansing 15, Mich.

LINING-OUT STOCK

Rooted cuttings of the following evergreens for summer and fall delivery. Pfitzers, Savina, Excelsa Strita, Cardian, Irish and Andorra Juniper; Taxus Canadensis, Golden, Gigantea, Globe and Pyramidal Arborvitae; Retinospora Plumosa Aurea. \$9.00 per 100; \$85.00 per 1000. Pleased to quote you on large orders. 5 per cent discount cash with order. 25 per cent down will hold, no discount, balance C.O.D. We may be able to supply a few thousand May and June delivery after present orders are filled.

WELLS M. DODDS, North Rose, N. Y.

AZALEAS

Quantity lots only. Large varieties.

Fisher Pink, Pride of Mobile, Pride of Dorking, Elegans, Formosa.

6 to 10-inch.....30c each
Dwarf or Kurume varieties (Spring delivery only). Hinodegirl, Coral Bells, Salmon Beauty, Hexe, Snow.

4 to 8-inch.....50c each
25 per cent deposit on C.O.D. orders and future shipments.

NATIONAL NURSERIES

	Per 100
100 Irish Juniper, 2 1/2 to 3 ft.	\$2.00
200 Irish Juniper, 3 to 4 ft.	2.50
100 Irish Juniper, 4 1/2 to 5 ft.	3.00
100 Irish Juniper, 5 to 5 1/2 ft.	3.50
200 Ashford Juniper, 4 to 4 1/2 ft.	3.25
75 Swedish Juniper, 4 to 4 1/2 ft.	3.50
75 Spiny Greek J., 2 1/2 to 3 ft.	3.25
50 Sargent Juniper, 2 1/2 to 3 ft. (heavy)	5.00
50 Pfitzer J., 4 1/2 to 5 ft.	7.50
50 Pyracantha Lalandi, 3 to 3 1/2 ft.	3.00

B&B HENTSCHEL'S NURSERY, Crete, Ill.
Telephone: Chicago Heights 3720

ROOTED EVERGREEN CUTTINGS

	Per 100
Cypress, Blue Allumi.	\$ 8.00
Cypress, Fletcher. A compact pyramid of soft, feathery blue-green foliage, better than Allumi for the small place	10.00
Cypress, Dwarf Golden Threadbranch.	8.00
Juniper, Irish (Fastigata)	8.00

MITCH NURSERY

Aurora, Ore.

ROOTED EVERGREEN CUTTINGS

	Per 100
Pfitzer Juniper	\$10.00
Irish Juniper	8.00
Andorra Juniper	10.00
Pyramidal Arborvitae	10.00
Stricta Juniper	9.00
Retinospora	8.00

SANDERS GREENHOUSE AND NURSERY
R. D. No. 1 Monongahela, Pa.

BARGAINS FOR EARLY SPRING

SHIPMENT.

8000 Norway (Red Pine) 2000 White Pine

3000 White Spruce 200 Scotch Pine

All XX and field-grown, 2 1/2 to 3 1/2 ins.

Packed 10 in bundle with Sphagnum moss, \$8.00 per 10; \$75.00 per 100. Special bargain if you select, dig and transport them yourself.

HAYWARD GREENHOUSE, Hayward, Wis.

DOUGLAS FIRS

8 to 12 inches, \$10.00 per 100; \$75.00 per 1000. 18 to 24 inches, \$25.00 per 100. Carefully gathered and packed.

COASTAL GARDENS

Sheridan, Ore.

NEW INTRODUCTION

AZALEA HINO-CRIMSON.
Showy, clean, crimson-red, nonfading flower. Large, glossy, dark green foliage. Excellent forcer. A cross between Hinodegirl and Amoen and harder than Hinodegirl. Ask for color photo. For shipment in March from 2 1/4-in. pots, \$25.00 per 100; limit, 250. Cash with order.

JOHN VERMEULEN & SON, INC.
Westbury, L. I., N. Y.

GARDENIAS

Quantity lots.

Hadley's Veltch.

Each
8 to 12-inch.....30c
4 to 8-inch.....20c
25 per cent deposit on C.O.D. orders and future shipments.

NATIONAL NURSERIES

Dept. 26, Biloxi, Miss.

CAMELLIAS

Container-grown Camellias
of proven merit exclusively.

J. S. TORMEY
Temple City, California

Wholesale Grower of the Best
from the Far West.

Surplus Stock in Ground

18 Pfitzer Juniper, 3 to 4 ft.	\$2.00
25 Andorra Juniper, 2 to 2 1/2 ft.	2.00
30 Greek Juniper, 3 to 4 ft.	2.00
20 Larch, European, 6 to 8 ft.	4.00
25 Larch, Japanese, 10 to 12 ft.	5.00
20 Himalayan Pine, 8 to 10 ft.	8.00
25 Rhododendron Carolina, 2 1/2 to 3 ft.	8.00

GIBALTAR (LEWIS) NURSERIES

R. D. No. 1 Birdboro, Pa.

AZALEA ROOTED CUTTINGS

100,000 Formosa and some other Indian varieties available for shipment after December 1. \$6.50 per 100; \$60.00 per 1000. No charge for packing. FLORIDA NURSERY & LANDSCAPE CO., P. O. Box 97, Leesburg, Fla.

RED AND WHITE PINE—8,000 to 10,000 Red and White Pine Trees, 2 to 4 feet in height. Buyer to select and remove from present location at Easton, Conn. Reasonably priced for early removal and sales in volume. Inquire J. R. ECKART, R. F. D. 4, Madison Ave., Bridgeport, Conn.

AZALEAS, SNOW AND PINK, Good Spread. 2 to 3 ft., \$10.00 per 100; 3 to 4 ft., \$15.00 per 100.

MRS. CHARLIE ROBINSON, Greenville, Ga.

Write for our list of Azaleas, Rhododendrons and Boxwood.

LEVICK NURSERY CO.
R. F. D. 3 Bridgeton, N. J.

Increase your business
by offering needed
seedlings, cuttings and finished plants
through the Classified Ads.

FRUIT TREES

PLUM TREES—Jumbo size, 6 to 7 ft., 1 to 1 1/2-in. cal., \$16.00 per 10; \$145.00 per 100, in the following varieties: Abundance, Red June, Wickson, Also Abundance, Burbank, Red June, Shropshire, Damsel, Wickson and Mammoth Golden in 4 to 6 ft. \$9.00 per 10; \$85.00 per 100; 3 to 4 ft., \$7.50 per 10; \$70.00 per 100; 2 to 3 ft., \$6.00 per 10; \$60.00 per 100. See page 16 of the February 15 American Nurseryman for other Fruits.

WAYNESBORO NURSERIES

Waynesboro, Va.

HARDY GRAFTED NUT TREES

Crath, Carpathian, English Walnut, Black Walnut, Butternut, Heartnut. Orders for less than 10 not accepted. Price list on request.

BERNATH'S NURSERY

Poughkeepsie, N. Y.

Concord Grapes, 2 yrs. No. 1, \$80.00 per 1000.

2000 Yellow Delicious Apples, 4 to 5 ft., 30c each.

BENTON COUNTY NURSERY CO., Inc.

Rogers, Ark.

FRUIT TREES—See page 16 of the February

15 issue of the American Nurseryman.

WAYNESBORO NURSERIES, INC.

Waynesboro, Virginia

PRUNUS PISSARDI—1 to 1 1/2-in. cal., 6 to 7 ft., \$17.50 per 10; \$160.00 per 100.

WAYNESBORO NURSERIES

Waynesboro, Va.

HARDY PLANTS

HARDY CHRYSANTHEMUMS

One of America's most complete lists (over 275 varieties). All Chrysanthemum stock plants grown and bloomed in our fields. Write for price list of roses, shrubs, trees, fruits, etc.

BOHLENDER NURSERIES CO.

(Est. 1849) Tipp City, Ohio

Box AN-1

HARDY PLANTS—Continued

CHRYSANTHEMUMS
New and Better Hardy Chrysanthemums
of Merit

Especially selected for their outstanding garden value, their usefulness as a cut flower and their brilliant and distinctive color and shades.

	Rooted Cuttings	Potted Plants
	Doz. 100	10 100
Barbara Small	\$1.50	\$10.00 \$2.00 \$15.00
Bokhara	.....	..... 5.00 45.00
Candlelight	2.50	18.00 3.00 25.00
Charles Nye	2.50	18.00 3.00 25.00
Chippewa	2.00	15.00 2.50 20.00
Courageous	3.00	20.00 3.50 30.00
Lavender Lady	1.25	8.00 1.50 12.00
Mme. Chiang Kai-shek	.....	..... 4.50 30.00
Pat. 634	.....	..... 4.50 30.00
C. R. Hastings	1.50	10.00 2.00 15.00
Mrs. Sam P. Rotan	1.25	8.00 2.00 15.00
My Lady	2.00	15.00 2.50 20.00
Olivia Longland	2.50	18.00 3.00 25.00
Polar Ice	1.50	10.00 2.00 15.00
Red Riding Hood	1.50	10.00 2.00 15.00
September Dawn	1.50	10.00 2.00 15.00
Southwind	.....	..... 5.00 45.00
White Wonder	1.50	10.00 2.00 15.00
Zantha (Goldlocks)	1.50	10.00 2.00 15.00
Medium-sized Double Varieties	.....	.....
California Red	1.25	8.00 1.50 12.00
Dubonnet	1.50	10.00 2.00 15.00
Early Joan Helen	1.50	10.00 2.00 15.00
Eureka Giant	1.5	10.00 2.00 15.00
Evening Sun	2.00	15.00 2.50 20.00
Ida Brewster	2.50	18.00 3.00 25.00
North Star	1.50	10.00 2.00 15.00
Sigurd	1.25	8.00 1.50 12.00
Summertime, Pat. 689	.....	..... 5.00 45.00
Winsome	2.50	18.00 3.00 25.00
Capt. R. H. Cook	1.25	8.00 1.50 12.00
Fred F. Rockwell	.....	..... 5.00 45.00
Pat. applied for	.....	..... 5.00 45.00
Goblin	1.25	8.00 1.50 12.00
Orchid Jewell	2.00	15.00 2.50 20.00
Pink Doty	1.25	8.00 1.50 12.00
Ruby Pompon	1.50	10.00 2.00 15.00
White Doty	1.25	8.00 1.50 12.00
White Jewell	2.00	15.00 2.50 20.00
Cushion Pompons	.....	.....
Dwarf Jewell	3.00	20.00 3.50 30.00
September Gold	1.25	8.00 1.50 12.00
Sunbeam	1.50	10.00 2.00 15.00
Aurora	2.50	18.00 3.00 25.00
Nashua	.....	..... 3.00 25.00
Spitfire	2.00	15.00 2.50 20.00
Serene (white)	1.50	10.00 2.00 15.00
Yel. Cushion	1.50	10.00 2.00 15.00

Send for our complete wholesale list featuring many other varieties of Hardy Chrysanthemums, as well as a complete line of new and better Hardy Plants.

CARROLL GARDENS
Westminster, Md.

NEW HARDY EARLY-BLOOMING MUMS

Every nurseryman should grow an assortment of these fine hardy chrysanthemums, as no other item is comparable in producing quick profits.

Our assortments include the New Minnesota, University of Chicago, English and other proved introductions. All selected for hardiness, showing colors, combined with an early, long blooming season.

Our test gardens here in Kansas, where many rigorous winters and hot dry summers are experienced, prove the stamina and prolificness of varieties we grow and sell in these assortments.

You will like our selection of these fine mums which include all types and colors. A gorgeous blooming up-to-date assortment, all labeled true-to-name varieties.

Rooted cuttings ready now or later.

25 Named Var., 2 ea., 50 plants.....	\$ 6.50
25 Named Var., 5 ea., 125 plants.....	12.00
25 Named Var., 10 ea., 250 plants.....	20.00
25 Named Var., 20 ea., 500 plants.....	35.00
50 Named Var., 2 ea., 100 plants.....	10.00
50 Named Var., 5 ea., 250 plants.....	20.00
50 Named Var., 10 ea., 500 plants.....	35.00
100 Named Var., 2 ea., 200 plants.....	20.00
100 Named Var., 5 ea., 500 plants.....	37.50
100 Named Var., 10 ea., 1000 plants.....	70.00

Potted 2-in. Bird Vita-Bands

All labeled (Equal to 2 1/2-in. Clay Pots)

If you order now and request shipment at planting-out time, plants will be hardened outside, ready for field. This saves the busy nurseryman much labor and expense, besides assuring 100 per cent growth of thrifty blooming plants for fall sales.

25 Named Var., 2 ea., 50 plants.....	\$ 8.00
25 Named Var., 5 ea., 125 plants.....	18.00
25 Named Var., 10 ea., 250 plants.....	35.00
50 Named Var., 2 ea., 100 plants.....	15.00
50 Named Var., 5 ea., 250 plants.....	35.00
50 Named Var., 10 ea., 500 plants.....	65.00
100 Named Var., 2 ea., 200 plants.....	30.00
100 Named Var., 5 ea., 500 plants.....	65.00
100 Named Var., 10 ea., 1000 plants.....	125.00

Please remit with order. No credit accounts.

PRAIRIE & SOUTHWESTERN FLORETUM
R. F. D. 1, Box 103 Fall River, Kan.

HARDY FIELD-GROWN PERENNIALS OF FIRST QUALITY

All are in the field. Shipment can be made promptly.

AQUILEGIA LONGISSIMA. Yellow. Delicate yellow with extra-long spurs. Fragrant and fine. \$1.50 per 10; \$12.00 per 100.

CARNATION HARDY GRENADIN. The hardest of the Carnations. Very double and very free-flowering, extremely fragrant. Salmon Queen, Golden Sun, King of the Blacks, Rose Queen, Scarlet, White and Yellow. \$1.25 per 10; \$10.00 per 100.

LAVERDULA VERA MUNSTAD STRAIN. True perennial Sweet Lavender. Extra-fine, heavy plants. \$1.75 per 10; \$15.00 per 100.

LINUM PERENNE (Hardy Blue Flax). Very attractive, with pale blue flowers in June and July. No. 1 plants, \$1.25 per 10; \$10.00 per 100.

VERONICA BLUESPIRE. Medium-growing type that blooms all summer. \$1.75 per 10; \$15.00 per 100.

HARDY CHRYSANTHEMUMS FIELD CLUMPS

These are not divisions, but all are 1 and 2-year-old FIELD CLUMPS. They are just right for particular customers. Free of disease and of first quality. \$1.75 per 10; \$15.00 per 100.

AUTUMN LIGHTS. Very hardy, semidouble, coppery-bronze and orange.

EARLY BRONZE. An early-flowering pompon with a beautiful orange-bronze bloom.

GOBLIN. 2-inch blooms of warm bronze, shading to sparkling gold.

GOLDEN CHARM. Double golden-yellow blooms completely cover this thrifty grower.

LAVERDULA LADY. Very double, free-flowering, true lavender.

PINK CHARM. Clean 3-inch blooms on strong stems. Pink, with bright yellow center. Strong grower, medium height.

PINK CUSHION. Dwarf plant with hundreds of orchid-pink blooms.

PYGMY GOLD. Large red, clean golden-yellow pompon, about 1 inch in diameter.

ROSE GLOW. Raspberry-rose-pink. Very neat appearing.

RUTH CUMMINGS. An old-timer, but good. Fine reddish-bronze.

SANTA CLAUS. Large red blooms on a dwarf plant, usually classed with the cushion mums.

SEPTEMBER CHARM. Yellow, or light bronze, with 2 1/2-inch blooms on good stems. Early bloomer and good grower.

SUNNY BOY. Early-blooming yellow pompon. Well named.

APPALACHIAN NURSERIES

Waynesboro, Pa.

NEW AND CHOICE HARDY PERENNIALS

CAMPANULA BLUE GARDENIA. Magnificent double bright blue flowers. Pot plants, \$4.00 per 12; \$25.00 per 100.

CARNATION LUCIA. Hardy, deep salmon-pink. Pot plants, \$3.50 per 12; \$20.00 per 100.

CARNATION SYLVIA. Hardy, silvery rose-pink. Pot plants, \$3.50 per 12; \$20.00 per 100.

CHRYSANTHEMUM MAX. MOUNT SHASTA (Shasta Daisy). Hardy, pure white crested flowers. Pot plants, \$4.00 per 12; \$25.00 per 100.

DELPHINIUM CINEREUM BLUE MIRROR. Bright blue, spurless chinese type. Field-grown, \$3.50 per 12; \$20.00 per 100.

DIANTHUS SILVERMINE. Pure white. Pot plants, \$3.00 per 12; \$18.00 per 100.

MYOSOTIS PINK BEAUTY. Hardy, pink forget-me-nots. Pot plants, \$3.00 per 12; \$18.00 per 100.

PHLOX DIVARICATA LAPHAM. Lilac-blue dwarf Phlox. Pot plants, \$3.50 per 12; \$20.00 per 100.

VIOLET ROYAL ROBE. Unusually large lustrous purple violets. Pot plants, \$3.00 per 12; \$18.00 per 100.

THE BEST HARDY ASTERS

BEECHWOOD CHALLENGER. Crimson with yellow centers.

BLUE LAGOON. Beautiful medium blue.

PALMYRA. Pure pink; best nov. belgi.

All field-grown plants, \$3.00 per 12; \$18.00 per 100.

CORLISS BROS. INC., NURSERIES

4 Reynard Street Gloucester, Mass.

2-YR. PERENNIALS

Per 10 Per 100

7500 Coreopsis Lancelotta \$1.00 \$ 8.00

2500 Hemerocallis Dr. Regel 1.00 8.00

1500 Hemerocallis Fulva 1.00 8.00

1200 Hemerocallis Mixed 1.00 7.00

1700 Hibiscus (Mallows) Mixed 1.00 8.00

2500 Hibiscus Crismon Eye 1.00 8.00

1000 Hibiscus White, 1 1/2 mixed 1.00 8.00

7500 Yucca Filamentosa 1.00 8.00

2000 Lonicera Japonica Halliana, 5 to 6 leads 1.00 10.00

1000 Lonicera Japonica Halliana, 3 to 5 leads 1.00 6.00

J. HERBERT ALEXANDER

Middleboro, Mass.

ROOTED CUTTINGS OF HARDY MUMS

\$1.00 per 10.

(Minimum number of 1 variety, 10)

Aglow, Algonquin, Apricot Glow, Arctic Queen, Aurora, Autumn Lights, Autumn Greetings, Autumn Song, Autumn Tide, Autumn Sunlight, Avalanche, Aviator, Barbara Small, Betty, Bambi, Bonfire, Boreas, Bronze Cushion, Bronze Pyramid, Burma, Butterball, Calceit, Calendula, Charles Nye, Chippewa, Champion Cushion, Dahlia Mum, Dee Dee Ahrens, Dean Kay, Dubonnet, Drifted Snow, Duluth, Early Harvest, E. A. Guest, Echoes, E. A. Wander, Elow, Early Joan Helen, Fireglow, Garden Queen, Glacier, Glomero, Greylock, Gold Treasure, Harbinger, Harmony, Heatherbloom, Ida, Brewster, Irene, Lavender Lady, Lavender Lassie, Little Eskimo, Lodermin, Louise Schling, Mandalay, Maroon 'N Gold, Morning Glow, Mrs. C. R. Hastings, Monantico, Mrs. Du Pont, North Star, Olive Longland, Orchid Spoon, Pygmy Gold, Pink Radiance, Pipestone, Pink Cushion, Pinksong, Polar Ice, Primula, Purple Star, Queen Cushion, Red Bank, Red Gold, Red Hussar, Red Riding Hood, Robert Brydon, Redsa, Red Wing, Red Velvet, Sam Willison, Sequoia, September Dawn, Santa Claus, September Bronze, September Sunshine, Sunbeam Sundance, Sunkist, Sunny Boy, Sunred, Stalwart, Supreme Yellow, Tasiva, The Chief, Thalia, The Moor, Tusore, Vivid, Violet, Waterlily, Welcome, Wm. Longland, Yellow Cushion, Yellow Irene.

ROOTED CUTTINGS, \$1.50 per 10.

Allegro, Courageous, Garnet, Glowing Coals, Hearthfire, Klondike Gold, Lola, Morning Star, Purity, Serene, Sienna, Simba, Southwind, Zantha.

ENGLISH VARIETIES

ROOTED CUTTINGS, \$1.00 per 10.

(Minimum of 1 variety, 10.)

Alabaster, Alpik, Balcony Gold, Bronze Buttercup, Bronze Freda, Bronze McLeod, Buttercup, Challenger, Cerise, Crimson Buttercup, Eldorado, Elite, Flashlight, Gold Mine, Gold Standard, Hector, Hillcrest Red, Leda, Maryland Dore, Mrs. Don McIvor, Ash, Guthrie, Red Harlow, Sandy Ritchie, Scarlet Coast, Tiger, Valcote, Westbourne.

ROOTED CUTTINGS, \$2.50 per 10.

Alexander Mason, Adoration, Avondale White, A. E. Cooper, Cyril Coleman, Crusader, China Gold, Dignity, Don Juan, Forward, Geo. Barnes, Early Ace, Gladiator, Golden Standard, Golden Dome, Harvest Moon, Henry Sutcliffe, Hoopoe, Jim Thorpe, John Baxter, LePactio, Mennon, Mrs. J. H. Milner, Orange Glow, Pink Freda, Working Bronze, Mrs. Smeardon.

McNINCH GREENHOUSES

St. Joseph, Mo.

Per 10 Per 100

Achillea Filipendula, yellow.....\$1.75 \$12.00

Anthem. Tinctoria Kelwayi, clear yellow..... 1.50 10.00

Aster Adorable, clear pink..... 2.00 15.00

Boltonia Astersoides, white..... 1.50 10.00

Campanula (2 1/2-in. pots), pink, blue, white..... 1.75 12.00

Chrysanthemums Maximum

Alaska (clumps)..... 1.50 8.00

Mayfield Giants (clumps)..... 1.50 10.00

Coreopsis Sunburst..... 1.50 10.00

Delphinium Pacific Hybrids..... 2.50 18.00

Dianthus, Double, mixed colors..... 1.50 10.00

Digitalis Giant Shirley..... 2.00 15.00

Gaillardia Burgandy..... 1.75 12.00

Gaillardia Dazzler..... 1.75 12.00

Gypsophila Bristol Fairy (field-grown)..... 5.00 40.00

Gypsophila Oldhamiana, tinted pink..... 1.50 10.00

Iris, Dwarf Lutea, yellow, clumps..... 1.50 10.00

Iris, Dwarf Royal, purple..... 1.75 12.00

Linum Perenne, blue..... 1.50 10.00

Lupine, Russell's Hybrids..... 2.00 15.00

Oenothera Youngi, yellow..... 1.00 5.00

Physalis (Chinese Lantern)..... 1.50 10.00

Painted Daisy, double pink..... 1.75 12.00

Painted Daisy, double red..... 1.75 12.00

Painted Daisy, single and double mixed..... 1.50 10.00

Tritoma, Pftz. Hyb., 2-yr..... 1.75 12.00

Tritoma, Pftz. Hyb., 1-yr..... 1.50 8.00

Veronica Spicata, blue..... 1.50 10.00

Vinca Minor (Hardy Myrtle), clumps..... 1.50 10.00

Violeta, blue or white..... 1.50 10.00

Yucca Filamentosa, white..... 1.50 10.00

Herbs, Chives, Sage, Mint..... 1.50 10.00

VITTNER'S GARDENS

Manchester, Conn.

Strong, 1-year-old, field-grown plants.

Per 10 Per 100

Campanula medium, mixed.....\$3.00 \$25.00

Carnation Grenadin, mixed..... 8.00 25.00

Carnation Grenadin, King of the Blacks, pink, white or yellow..... 3.50 30.00

Gaillardia Burgundy, Goblin or grandiflora..... 3.00 25.00

Gypsophila Oldhamiana..... 3.00 25.00

Russell Lupine..... 5.00

Rudbeckia Purpurea..... 3.00

Oriental Poppy..... 3.00 25.00

SATISFACTION GUARANTEED

NOVOTNY GARDENS Osage, Iowa

10,000 NANDINAS

Strong, stout, potted, also well rooted plants, \$1.00 per 100; \$80.00 per 1000.

MRS. CHARLIE ROBINSON, Greenville, Ga.

HARDY PHLOX

Heavy rooted, No. 1 grade.	Per 10	Per 100
260 Border Gem, brilliant purple	\$1.80	\$18.00
900 Caroline Vanderschuer, lavender-blue	1.50	12.00
1000 Europa, white with red eye	1.50	12.00
500 Flash, crimson-red	1.80	15.00
120 Lillian, delicate cameo-pink	1.80	15.00
310 Mary Louise, pure white	1.80	15.00
50 Mrs. W. G. Harding, deep rose	1.80	15.00
385 Orange Beauty, orange-scarlet	1.80	15.00
920 Rheinlander, fine salmon	1.50	12.00
1000 Ruby Lee, reddish-purple	1.50	12.00
460 Rosea Superba, soft lilac-pink	1.80	15.00
450 Starlight, violet with white eye	1.80	15.00
CARNATION GRENADIN, colors: white, pink, yellow and red; strong field transplants.	1.20	10.00

FLOR-ACRES, Bridgman, Mich.

TRANSPLANTED PERENNIALS

Grown in field beds in sandy loam.	Per 100
Aquilegia Longissima Hybrida, long-est-spurred variety, in mixed colors only	\$10.00
Carnation Super Giant, mixed colors; flowers 1 1/2 larger than Chabaud	8.00
Delphinium Pacific Giant, grown from Vetterli & Reinelt's hand-pollinated seeds. These are the finest available in this famous strain. Round Table Series only	12.00
Primula Polyantha Pacific strain	10.00
A few larger	12.00
Primula Polyantha Giant strain	10.00
SEEDLINGS, Summer-sown	
Coreopsis Sunburst, Double Gold	3.00
Coreopsis Mayfield Giant, single golden-yellow	3.00
Geum, Lady Sellow	3.00

MITSCH NURSERY

Aurora, Ore.

HARDY FIELD-GROWN PERENNIALS

Rhubarb, Chipman's Canada Red, 2-yr., No. 1 divisions	Per 100
Platycodon, new shell-pink	20.00
Delphinium, Pacific Hybrid	15.00
Aquilegia, Blue Shades, Copper Queen, Crimson Star	10.00
Carnation, Black King; red, pink, white	10.00
Sage, edible	10.00
Phlox atropurpurea	10.00
Phlox paniculata; 165 General Petain; 180 B. Comte; 200 Apollo Red; 625 Africa; 600 Starlight; 600 Progress; 700 Mary Louise; 800 P. D. Williams; 1000 Colonial; 4000 Mrs. Jenkins; 3500 Rosea Superba; 7000 Wanda; 10.00	

GEORGE M. LILLIE

Box 126 Essex, Iowa

HARDY ASTERS

Strong field clumps.	Per 10	Per 100
ADORABLE (Imp. Harr. Pink)	\$2.50	\$20.00
COUNTRESS OF DUDLEY (Dwarf pink)	2.50	18.00
NIOBE (Best dwarf white)	2.50	18.00
LADY MADDOCKS (Light pink dwarf)	2.50	18.00
MARJORIE (Dark pink dwarf)	2.50	20.00
No packing charge. Cash please. No C.O.D. We have over 500,000 new English mums, Cushion mums and our choice hardy varieties. These are offered in rooted cuttings, field clumps and pot plants. Write for list.		

FOX NURSERY

Elkhart 6, Ind.

PHLOX LINERS

\$2.00 per 100: Rheinlander, light salmon-pink; Prime Minister, white, red eye; R. P. Struthers, scarlet; Mrs. Harding, pink.	
\$4.00 per 100: Eva Forrester (Salmon Beauty), pink, white eye; Pink Charm, salmon-pink; Hauptmann Kohl, deep red; P. D. Williams, light pink, deeper eye.	
\$6.00 per 100: Sweetheart, salmon-pink; Mary Louise, white; Chas. Curtis, orange-scarlet.	
April delivery. Packed in bundles of 50. Minimum of one variety, 50.	

MCININCH GREENHOUSES

St. Joseph, Mo.

HARDY ENGLISH MUMS

Strong field clumps.	
Varieties below at 35c each.	
Bronze Buttercup, Crimson Buttercup, Challenger, Gold Standard, Reveller, Rose Princess.	
Varieties below at 45c each.	
Conqueror, China Gold, Coppelia, Elite, Freda Pink, Leda, Nita, Vulcan, Yellow Gown.	
Any varieties 10 for \$3.50.	
Cash, please. No packing charge.	
Write for complete list of hardy mums and other perennials.	

FOX NURSERY, Elkhart 7, Ind.

HARDY FERNS, \$6.00 per 100.	
Ostrich, Lady, Clayton and Maidenhair.	

STRAND NURSERY CO.

Taylors Falls, Minn.

PEONIES.

Send for 1947 spring list of offerings.

PHIL LUTZ PEONY FARM

Boonville, Ind.

GYPSOPHILA BRISTOL FAIRY

Grafted, 2-in. pots, \$20.00 per 100; \$180.00 per 1000.	
DELPHINIUM BELLADONNA IMPROVED	
Strong field seedlings, ready to line out.	
\$2.25 per 100; \$4.50 per 250; \$13.50 per 1000.	
August-potted, 2-in., \$7.00 per 100; \$65.00 per 1000. Send for trade list.	

STRATFORD GARDENS, Delaware, Ohio

VINCA MINOR.

Good, strong, healthy plants, 8 to 12 in. tall, 8 to 12 vines to a clump. Well packed for shipment.	
Clumps: \$10.00 per 100; \$95.00 per 1000.	

SYLVANIA NURSERY & PEAT CO.

New Galilee, Pa.

CUSHION CHRYSANTHEMUMS

No. 1 rooted divisions, pink, red, bronze, white, yellow, \$25.00 per 1000, F.O.B. Buchanan. 250 assorted colors at 1000 rate. Cash please.	
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O. K. NURSERY

Buchanan, Mich.

BLEEDING HEARTS

DICENTRA SPECTABILIS, 2 to 5 eyes, \$40.00 per 100. DICENTRA EXIMIA, 2 to 6 eyes, \$20.00 per 100. Cash with order.	
J. HENDRIKS, Grover, Portage, Mich.	

PERENNIAL VERBENAS

Rich scarlet, snow, pink and lavender; large field plants, \$4.00 per 100, \$25.00 per 1000.	
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MRS. CHARLIE ROBINSON, Greenville, Ga.

HARDY CHRYSANTHEMUMS

Send for our 1947 catalog.	
Cultural notes on cut flowers and pot plants.	
C. C. BREECE	
Rt. 2, Delaware, Ohio	

Strong 1-year field-transplanted Digitalis (Shirley Hybrid) and Coreopsis (Dble. Sunburst), \$6.00 per 100.	
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NORTH POLE NURSERY

Cornucopia, Wis.

Native perennials, field-grown: Bulbs, Tubers, Lilies; Ferns; Primula; Mertensia; Vinca Minor. Ask for price list.	
JOHN QUELLA	
Riverside Drive Painesville, Ohio	

Send us your perennial want list.	
Perennial price list now available.	

VITTNER'S GARDENS

Manchester, Conn.

PERENNIAL GROWERS

CARNATION CRIMSON KING	
Dark red hardy Carnation.	
2-inch pot plants, \$18.00 per 100.	
FOX NURSERY, Elkhart, Ind.	

Surplus Stock

can be easily and quickly turned into	
Cash	
listing it in the	

American Nurseryman Classified Ads.

SEEDS

Over-planted on peach pits. Will June bud and grow varieties desired under contract. 2 full acres. Reasonable. If interested, visit or write.	
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PACK TRUE-TO-NAME NURSERY CO.	
Box 457 McMinnville, Tenn.	

REGAL LILY SEEDS AND BULBS

MRS. ROY WILKINS	
Newburg, Ore.	

PEACH PITS, southern-collected: high germination. \$2.00 per bu. Fruit trees; Shrubs.	
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RIVERDALE NURSERIES, Riverdale, Ga.

SHRUBS and TREES

12,000 Multiflora Japonica, thornless, 9-in. cuttings, \$7.00 per 1000.	
150 Pussy Willow, 3-yr., 5 to 6 ft., \$4.00 per 10.	
300 Catalpa Bungei, 3-yr. heads, 6 to 7 ft. stems, \$18.00 per 10.	
1000 Honeysuckle (Lonicera) Pink Tatarian, 2-yr., 18 to 24 in., \$15.00 per 100.	
500 Spiraea Trichocarpa, 2-yr., 2 to 3 ft., \$17.00 per 100.	
2000 Spiraea Vanhouttei, 2-yr., 2 to 3 ft., \$15.00 per 100.	
400 Red Lake Currants, 1-yr., No. 1, \$15.00 per 100.	
1000 Fredonia Grapes, 2-yr., No. 1, \$15.00 per 100.	

FINGER LAKES NURSERIES, Geneva, N. Y.	
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MULTIFLORA ROOT STOCKS.

1 to 2 mm., \$10.00 per 1000.	
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30,000 available.

BROWNELL ROSES

Little Compton, R. I.	
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LINING-OUT STOCK

Delivery spring, 1947. Please send cash with order, except in instances where customer has established credit on our books.	
Each per 100	

Biota Bakeri, 3 1/4-in. pots	\$0.18
Biota Bakeri, 2 1/4-in. pots	.20
Biota Sibyll, 3 1/4-in. pots	.18
Blue Lawson Cypress, 12x15 ins., field-grown	.40
Peter's Juniper, 2 1/4-in. pots	.18
J. Com. Col. Compacta, 12x18 ins., field-grown	.35
J. Excelsa Stricta, 2 1/4-in. pots	.18
J. Excelsa Stricta, 2 1/4-in. pots	.20
J. Hibernica Fastigiata, 4x6 ins., liners	.12
J. Jap. Virginiana, 2 1/4-in. pots	.20
Taxus Cuspidata, 2 1/4-in. pots	.20
Thuja Occidentalis Pyramidalis, 2 1/4-in. pots	.18
Thuja Occidentalis Pyramidalis, 2 1/4-in. pots	.20
Abelia Grandiflora, 6x8 ins., field	.10
Abelia Grandiflora, 8x12 ins., field	.12
Buxus Sempervirens, 4x6 ins., liners	.08
Buxus Sempervirens, 6x8 ins., liners	.10
Camellia Sasanqua Pink, 2 1/4-in. pots	.15
Eunymus Patens Sieboldi, 4x6 ins., liners	.08
Gardenia Fortunei, 4x6 ins., liners	.10
Ligustrum Lucidum Compactum, 4x6 ins., liners	.08
2 1/4-in. pots	.12
Mahonia Bealei, 2x4 ins., liners	.06
Mahonia Bealei, 1 1/4-in. pots	.08
Mahonia Bealei, 2 1/4-in. pots	.10
Nandina Domestica, 2 1/4-in. pots	.12
Viburnum Tinus, 4x6 ins., liners	.08
Buddleia Ile de France, 6x8 ins., liners	.06
Foraythia Spectabilis, 8x12 ins., liners	.06
Foraythia Spectabilis, 12x18 ins., liners	.08
Kera Japonica Floreplena, 4x6 ins., liners	.06
Lonicera Flaming Beauty, 6x8 ins., liners	.12
Philadelphus Coronarius, 18x24 ins., liners	.06
Philadelphus Coronarius, 2x3 ft., liners	.08
Spiraea:	
Anthony Waterer, 4x6 ins., liners	.06
Anthony Waterer, 6x8 ins., liners	.07
Reevesiana Floreplena, 4x6 ins., liners	.10
Reevesiana Floreplena, 6x8 ins., liners	.12
Vauhouetii, 8x12 ins., liners	.06
Vanhouttei, 12x18 ins., liners	.06
Vanhouttei, 18x24 ins., branched	.12
Weigela Rosea, 18x24 ins., branched	.15
Weigela Rosea, 2x3 ft., branched	.20
Figa. Texas Everbearing, 2x3 ft., liners	.20

T. G. OWEN & SON, INC.

Columbus, Miss.

	Per 100
Viburnum Carlesii, 2 1/4-in. pots	\$30.00
Viburnum Burkwoodi, 1-yr. field	45.00
Andromeda Japonica, rooted cuttings	11.00
Andromeda Japonica, tr., in flats	20.00
Taxus Hickii, rooted cuttings	8.00
Taxus Cuspidata	7.00
Taxus Brevifolia	8.00
Asalea Kaempferi Hybrida, 1-yr., in flats	11.00
Ilex Latifolia, rooted cuttings	6.00
Hydrangea Serrata, 1-yr., field	10.00
Foraythia Primulina, 1-yr., field	10.00

MAURICE VIETTE

21 Roosevelt Ave., Huntington Sta., L. I. N. Y.

THORNLESS ROSA MULTIFLORA

JAPONICA	
This selection roots here 99 per cent. Not one thorn to an average 100 bushes. Holds its branches high off the ground. They are easy to get at bud.	

Buy now, bud in June, sell monthly rose-bushes next fall.	
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Cuttings, 8-inch average length, \$2.00 per 100; \$18.00 per 1000; \$75.00 per 5000.	
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Cuttings, 6-inch, \$1.50 per 100.	
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STOVALL NURSERY

Leakensville, Miss.

SURPLUS NURSERY STOCK including the following:	
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American Ash, American Beech, American and Chinese Elm, 4 to 8-in. caliper; Norway, Rock and Cutleaf Maple, 4 to 9-in. caliper; Pin and Red Oak, 4 to 8-in. caliper; Evergreens: Canadian Hemlock, 10 to 15 ft.; American Arborvitae, 15 to 25 ft. and Golden Arborvitae, 10 to 14 ft. These have good balls and can be shaken out. For particulars and quantity, write	
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McMANON'S NURSERIES	
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LINING-OUT STOCK.

	Per 100	Per 1000
Lonicera morrowi, 1-yr.	\$ 5.00
Philadelphus Amalthaeae, 3-in. pot	15.00	\$120.00
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Viburnum Burkwoodi, grafts, 3-in. pot	40.00

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Strong No. 1, 2-yr., field-grown, 5 to 4 leads, 18 to 20 in.; carefully graded, selected plants, \$4.00 per 100, \$30.00 per 1000; lighter plants, \$20.00 per 1000. Immediate shipment.	
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SPECIMEN PINK DOGWOOD
Cornus Florida Rubra, 10 to 16 ft.; Cornus Florida, 8 to 16 ft.; Acer Rubrum, 3 to 5-in. cal.; Fagus Americana, 8 to 10 ft.; Oxydendrum Arboreum, 6 to 12 ft.; Pinus Resinosa, 12 to 22 ft.; Quercus Coccinea, 4 to 8-in. cal.; Quercus Palustris, 3 to 7-in. cal.; Quercus Rubra, 3 to 7-in. cal.; Magnolia Glauca, 4 to 12 ft.
Priced in ground. Nursery at Woodstown, N. J.

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2-yr., heavily branched.
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18 to 24 ins. 65.00
2 to 3 ft. 80.00

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Since 1893

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DOGWOOD (Cornus Florida)
Large, white mammoth-flowered, good spread; 2 to 3 ft., \$10.00 per 100; 3 to 4 ft., \$15.00 per 100; 4 to 5 ft., \$25.00 per 100; 5 to 6 ft., \$30.00 per 100. Attractive price on 1000 lots or more.
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A large-leaved shrub with spicy, fragrant chocolate-codory flowers; 2 to 3 ft., \$15.00 per 100; 3 to 4 ft., \$20.00 per 100. Quality stock.
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LILACS, French Hybrids and Standard varieties.
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ASPARAGUS
Paradise and Washington.
Strong roots—\$0.00 to offer.
100 to 250 to 250 to 1000
Per 100 Per 1000
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1-yr., No. 1 1.70 12.00

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ROOTS for immediate delivery.
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Nurseryman for 40 years.

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HORSE-RADISH ROOTS
Crowns, \$5.00 per 100.
Cuttings, \$11.00 per 1000.
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\$2.00 per 100; \$12.00 per 1000
1-year Asparagus Roots, \$10.00 per 1000.
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Caragana, 18 to 24 ins. 15.00

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1 to 4 bags. \$2.00
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25 to 49 bags. .85
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Write for price on bulk carload. We ship same day order is received. Order early. Cash, please.
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50 ft., 400 W. Cable for 40 sq. ft. 3.20
Air Thermo, with pilot light. 3.75
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Immediate del. See adv. this issue.
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NEEDLE BLIGHT OF PINE.

Needle blight of eastern white pine made its appearance in Maryland early in July. Previously it had been of little concern to nurserymen and growers of ornamentals. The disease has been most severe in the Rockville and Sugarloaf mountain areas of Montgomery county. Isolated cases have been observed to a limited extent on young and old trees in Frederick, Carroll and Prince Georges counties, reported E. A. Walker, of the University of Maryland, in the Plant Disease Reporter.

Needle blight affects the current season's growth of needles, causing them to turn reddish-brown in color and to die rapidly from the tip back one-fourth to one-half the length of the needle. The affected tree appears from a distance to be dying as if scorched by fire. Severely affected trees will be stunted in growth for three to five years, and an occasional tree may die. As observed this year, needle blight does not affect all trees in a white-pine planting. One tree in a group may be severely affected, and another near by may show only slight coloration, while the remaining trees appear healthy.

Needle blight is thought to be caused by a combination of unfavorable weather and root growth. The condition may appear after prolonged periods of cloudy, moist weather, followed abruptly by dry, hot days. This is associated with the dying of feeder rootlets, resulting in less water being taken up to supply the young needles, which are then scorched by the heat. This explanation fits the situation in Maryland this year. The hot, dry weather apparently came when the needles were most tender, in the area where needle blight is worst.

Application of nutrients in the form of commercial fertilizer this fall followed by heavy watering and then mulching with an abundant supply of pine needles is recommended as the best treatment to stimulate new feeder root development for the best growth response of affected trees.

CLARENCE H. MIELKE has started the Spokane Valley Nursery on fourteen acres of his own land at Veradale, Wash. He expects to offer landscaping services and eventually to grow all of his own stock.

IRVING EDWINS has reestablished Evergreen Nursery, at Kirkland, Wash. Formerly located under the same name at Wenatchee, Wash., he sold his business when he entered the merchant marine.

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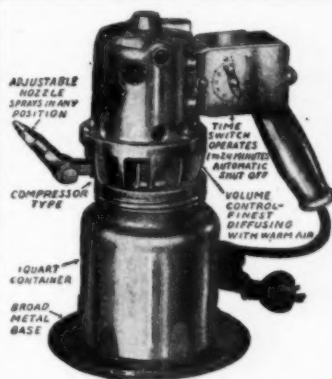
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FAIRMOUNT GARDENS, a retail salesyard, have been established at Bangor, Me., by Jay E. Alley and Vaughn O. Furrow.

WILLIAM F. BRUNDAGE is proprietor of Brundage & Schmid, a new nursery and landscape business at Teaneck, N. J.

MAYNARD FLOWER SHOP, Centralia, Wash., will distribute evergreens under the name of Blue & Maynard.



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NEW PLANTS THROUGH HYBRIDIZATION.

[Continued from page 8.]

brid had twenty-six chromosomes just like the parents. Nature has provided a mechanism to handle this problem. As you know, seeds are developed when pollen grains fall on the stigma, grow down the style and fertilize the egg cells. Each pollen grain and egg cell has only half as many chromosomes as the other cells in the plant. The twenty-six chromosomes of a rhododendron are made up of thirteen sets of twin chromosomes. When pollen grains and egg cells are formed, they receive only one chromosome of each twin, or just half the total number. When the reproductive elements unite, the full number is restored.

As a rule, most plant characters are dependent on one gene. Since, however, each chromosome has a duplicate present, there are actually two genes, or a pair, for each character. If these two genes are identical, the plant is said to be pure for this gene or character. If the two genes differ, for instance, one being a determiner for red flowers and the other for white flowers, the plant is a hybrid for this particular gene or character. When you recall the statement that a plant probably has thousands of genes, you can understand how difficult it is to secure a plant absolutely pure for all its pairs of genes.

By now you can see how nature provides for the tremendous variation that exists among plants and among animals. When we make a hybrid, we do it by bringing together two sets of chromosomes that differ in the genes they carry. Some of the genes will be dominant, others recessive. The hybrid will exhibit the effect of the dominants, and the recessives will be hidden. However, the recessive genes will not be modified in any way. If we want to see their effect again, all we have to do is to self-pollinate the hybrid, or else cross it back to the plant carrying the recessive gene or genes in which we are interested.

When two plants with any genetic differences are cross-pollinated, the resulting seedlings are hybrids. These seedlings may be only slightly hybrid, or exceedingly so, depending on the number of genes in the parents that differ from one another. As a rule hybrids that result from crosses of plants differing slightly from one another are fully fertile. Thus hybrids between varieties are practically always highly fertile. Hybrids from crosses between species are usually sterile. In general it may be said that



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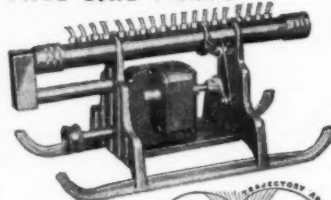
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10-in.	6	No. M-114—2.70	No. M-120—3.25
4 and 6-in.—1000 per carton.		10-in.—500 per carton.	

GARDEN LABELS—8 and 10-in.— $\frac{1}{2}$ in. wide, 12-in.—1 $\frac{1}{4}$ ins. wide.

Size	Pounds Per Ctn.	PLAIN	PAINTED
8-in.	2 $\frac{1}{2}$	No. M-122—\$1.80	No. M-125—\$2.10
10-in.	4	No. M-123—2.10	No. M-126—2.35
12-in.	2 $\frac{1}{2}$	No. M-124—1.10	No. M-127—1.35
8 and 10-in.—250 per carton.		12-in.—100 per carton.	

TREE LABELS—3 $\frac{1}{2}$ ins. long, copper wired.
No. M-128—PLAIN—(Wt. 4 lbs.) carton of 1000.....\$2.75
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sterility in hybrids becomes more pronounced as the parents' relationship becomes more distant. Sterility in hybrids usually results from an inability of such plants to form normal pollen grains and egg cells. The two sets of chromosomes found in their cells are able to form a normal plant, but not pollen or eggs. There have been several instances where such hybrids suddenly produced a side branch, or shoot, that was fertile. One such instance was when two species of primula were crossed. The hybrid was sterile and remained so for some time. Finally a side branch was produced that set seeds. When the plant was examined carefully, it was found that the fertile branch had thirty-six chromosomes whereas the sterile portion of the hybrid had eighteen. In some manner the chromosome number had been doubled and fertility had resulted.

This same spontaneous doubling of a chromosome number has undoubtedly occurred in many plants. Probably some of the sports among shrubs and trees are of this type. When this occurs the number of genes is also doubled, so that a character now has four genes affecting it instead of two. Such plants are called tetraploids. The word means that four chromosome sets are present in-

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stead of two. As a rule such plants are more vigorous than the normal type having only two sets of chromosomes. If a sterile hybrid has its chromosome number doubled, the tetraploid is usually fertile. If a fertile hybrid becomes tetraploid, it is usually sterile.

Possibly you are now thinking of some particular hybrid that does not set seeds and wondering what would happen if it became tetraploid. Until fairly recently about all we could do with a sterile hybrid was to hope that nature would spontaneously double its chromosome number. Now, however, we are able to induce chromosome doubling by means of several methods. The one most generally used is to treat seeds, seedlings or growing tips of plants with the drug colchicine. This material is extracted from the fall-blooming crocus (*Colchicum autumnale*). When seeds are soaked in the proper concentration of colchicine, some are usually affected and produce tetraploid plants. The techniques for treating woody plants are still not well worked out, but intensive research will develop methods here also.

So far the possibilities of this doubling of the number of chromosomes as a new experimental tool in breeding ornamentals scarcely have been touched. Practically nothing has been done with the woody shrubs and general run of plants in which nurserymen are interested. All we can do is to describe what has happened with plants where it has been used and assume that similar results would be secured with nursery material. Many plants are already tetraploid, and further doubling of the chromosome number probably would have deleterious effects. In some instances where tetraploids have had their chromosome number doubled again, the resulting plants with eight sets of chromosomes have been dwarf, retarded in growth and worthless economically. There is a limit to the number of chromosomes a plant species can contain, and as a rule the larger the chromosomes, the greater the difficulty encountered in making tetraploids.

What are some of the possibilities of improving ornamental plants by doubling their chromosomes? When the results are beneficial, the most striking thing is the increase in general plant vigor, including leaf, stem, flower and root size. The over-all dimensions of these plant organs may be increased from twenty-five to 100 per cent. The leaves and petals are generally much thicker and the flowers have considerably more substance. It is interesting that the over-all height of the plant may be re-

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50c size costs you 30c—\$3.60 per case, to sell for *\$6.00. 50c size makes 5 gallons spray.

85c size costs you 51c—\$6.12 per case, to sell for *\$10.40. 85c size makes 10 gallons spray.

\$1.50 size costs you 90c—\$10.80 per case, to sell for *\$18.00. \$1.50 size makes 20 gallons spray.

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duced, the result of shortening of internodes. Frequently the period of blooming is delayed from one to several weeks. If the original plant was a sterile hybrid, the tetraploid is usually fertile, and furthermore, the seedlings are generally uniform, thus making propagation by seeds possible.

From what has been pointed out, you can now see the many potentialities of inducing chromosome doubling in ornamental plants. It should be possible to extend the flowering season considerably by having plants that bloom later. We should also have plants that might escape flower damage from late frosts. Some of the species and varieties that now have a tendency to grow out of bounds might be more compact and low-growing. Many of the varieties would probably be far more attractive if their flowers were from fifty to 100 per cent larger. Some would be greatly improved if the flowering stems were sturdier, so that they would not flop over in every slight breeze.

Unfortunately, some of the early publicity on the use of colchicine for doubling chromosome numbers (and incidentally the number of genes) made it appear a simple procedure. In reality the techniques necessary

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are likely to vary from one variety or plant species to another. Also, it is not always a simple matter to secure a tetraploid even though the plant tissue treated has been affected. Frequently the affected seedlings or growing tips of plants are made up of mixtures of tetraploid and normal cells. The investigator must keep a careful watch over his material, often pruning out unaffected tissues in order to stimulate growth in affected parts. Sometimes only the epidermis, or outer layer of cells, is affected; occasionally only the inner cells, while the epidermis remains normal. These conditions only can be determined in the laboratory under the microscope. Because of the difficulties enumerated, as well as many others, use of colchicine to double chromosome numbers is still a tool for the trained investigator working in a well equipped laboratory.

There are several other research tools, or techniques, that also should be used in a general program for ornamental plant improvement. In many instances the time from seed ripening to flowering of seedlings is inordinately long. Sometimes this is caused by a long period of seed dormancy. In some cases it has been shown to be caused by some chemical compound in the endosperm of the seed that keeps the young embryo from starting to grow. It is now possible to overcome this by removing the young embryos from the seeds and starting them in test tubes on a nutrient medium. When they have once become well established, they can be removed and transplanted to a flat for growing on. Rose and iris seeds can be handled in this way, and flowering seedlings produced in less than half the time formerly required. Here, too, a well equipped laboratory and trained workers are required. It is easy for such artificial cultures to be contaminated by fungi or bacteria.

When a large number of seedlings have been secured, considerable space usually is required to carry them to flowering. With many flowering shrubs this could be alleviated somewhat by budding or grafting a large number of them on a large understock plant where they could bloom and their flower form and color be secured. In some instances time until flowering also could be shortened in this manner.

H. A. SEUBERT has sold the Montgomery Nursery & Greenhouse, Montgomery, O., to William G. Thornton and is operating Seubert's Rare Plant Gardens, also located at Montgomery.

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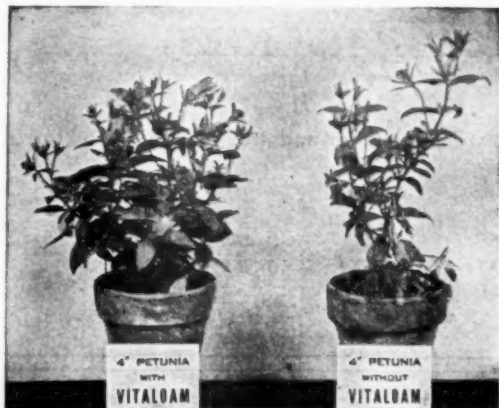
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LABORSAVING DEVICES.

[Continued from page 9.]

one-half feet in front of the machine. This shovel attachment could be made for around \$150.

The trees to be dug were in 4-foot rows and were two to three inches in caliper. To take out every other row was straight-line work. We dropped the shovel about two to two and one-half feet from the tree. The shovel, having a slight plow pitch, was pushed into the ground to the required depth toward the tree, cutting the roots under and on both sides, until the tree stood just beyond the center of the shovel. The jacks were set to hoist, and at the same time the tractor was moved forward one and one-half to two feet. The tree ball was lifted to its full height out of the hole and placed to one side on a burlap to be bagged or disposed of otherwise. The shovel passed under the center of the tree straight to the desired spot, the tree was set snugly in the shovel and when raised it was held rigid by the bottom and two sides. The time of operation was half a minute. As a steady operation, one tree could be dug per minute. The labor required was one tractor driver and one extra man, as far as the operation went.

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Arborist Tree Wound Dressing possesses antiseptic and fungicidal properties, being waterproof, adhesive and elastic, giving a durable tree wound dressing which will not harm the living tissue.

	Per gal.
1-gal. can (6 in case)	\$1.00
30 and 50-gal. drums	.75

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the roots on the other side of the ball?" As the jacks lift, the tractor is moved forward just enough to loosen the earth and take the strain from the roots, and if any roots hold, they can be clipped off with a spade or root clipper. This machine does a fine job digging trees for either transplanting or for selling bare root. We found the Caterpillar tractor the only type that could be used. It can be maneuvered in tight places and can pass over holes, maintaining its balance while carrying a tree.

This digging machine would be beneficial to the wholesale nurseryman who digs whole blocks of trees at one time. But by the retail nurseryman who has scattered orders for different varieties to be dug at different times, it could not be used, except for transplanting in the nursery.

We use this same attachment, but with a fork, or tines, instead of the digger, to dig bare-root stock for transplanting. It takes up less soil, which makes the stock easier to shake out. This attachment has also been most successful for other work, such as clearing ground, bush plantings and old nursery patches, being much quicker than the chain for pulling up stumps or trees. The tractor that handles the 36-inch shovel or fork weighs about six tons and has power enough to cut the roots of a 4-inch caliper tree.

There is another laborsaver of interest to nurserymen called the Seaman tiller. It is no baby carriage, but a strong, rugged machine, in widths from twenty-eight inches to six feet wide. It is run from a power take-off on the tractor or is coupled to a separate engine on a machine and drawn by tractor. Most tillers previously manufactured have been small and slow for use on large acreage. However, this new tiller plows and harrows all in one operation and leaves the ground soft and level. But it takes power to run it at its full depth, about six to eight inches, requiring ten horsepower for one foot in width, or forty horsepower for four feet in width. However, it can be run with less horsepower for shallower work where the ground is not too hard. If your ground conditions are good, this tiller will take the place of plow and harrow.

This tiller has its advantages in eliminating quack grass and other weeds of a like nature and leaving the small stones on top of the ground and the soil in excellent condition for planting or for seedbeds. This machine will rotate as fast as one can plow. It is good for working in manure or fertilizer to any depth desired, up to eight inches, and is strong

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Saves time and labor. Bands are removed without cutting; therefore, the dirt ball and roots are not disturbed...

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No. M-320	2 x 2 x 2 1/4	16 lbs.	3.60
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All one piece. Will not bend or rust. Full deep blade. Will last a lifetime. Each.....\$0.75; Dozen.....\$7.50

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The hand truck with rubber tires and bearings is a handy device for moving trees with balls up to four feet and rolling them to planting sites, often dispensing with the need for platforms.

I have mentioned but a few labor-saving devices. New devices are being used by the nurserymen now, and more are being added each year.

JOY'S SHRUBBERY has been established by Thomas E. Joy, Jr., at Joplin, Mo.

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CHASE BAG CO. MARKS 100 YEARS IN INDUSTRY.

From a disorderly pile in a Boston attic to a national organization of thirteen sales offices and fourteen factories is the 100-year history of the Chase Bag Co., with executive offices at New York city. In 1847 Henry S. Chase founded the business by taking over the reclaiming of burlap bags shipped with products from the West Indies to a Yankee trader. In 1852 his brother Thomas entered the business, and in 1856 another partner, Henry G. Faye, was taken in. When another brother, H. Lincoln Chase, bought out the interests of Mr. Faye in 1864, the firm name, H. & L. Chase Co., was adopted.

Expanding westward, the firm hired Francis H. Ludington in 1864 to open factories at St. Louis and Kansas City. Upon the death of both Henry and Lincoln Chase in the winter of 1884-85, the former's son, William Leverett Chase, formed a new partnership with Mr. Ludington. When William Chase died in 1895, the St. Louis and Kansas City factories were bought by Francis H. Ludington and incorporated as the H. & L. Chase Bag Co. He was succeeded by his son, Elliot K. Ludington, the present chairman of the board. In 1915 the firm adopted its present name, Chase Bag Co.

To commemorate the one-hundredth anniversary of the business, Chase Bag Co. is sponsoring an advertising campaign which pictures dramatic historical events of the past century, with headlines noting how many years before each of these events the company was already engaged in the manufacture of bags.

An attractive booklet has been prepared graphically illustrating the many types of products made by the company, including open mesh, paper, burlap and cotton bags and specialties such as liners, twines, baled burlap and spiral tubing. In addition to a brief history of the Chase Bag Co. there is information on the engineering, purchasing, research, design and production of the products.

BRINGING to an end forty-five years of continuous operation of the Rose Hill Nursery, Panora, Ia., by Mr. and Mrs. Fred Jackley, Donald White, of Des Moines, Ia., has assumed ownership and operation of the firm, which is to be known as the Rose Hill Seed & Nursery. Mr. White will conduct a branch store at Des Moines, and Mr. Jackley will continue managing the nursery this summer.

NURSERY HAND TRUCK

This Garden Shop Hand Truck is so well known today that few nurseries are without it. Many have several, use one on each delivery truck, others in the nursery. Material shortages have slowed our production, but we are shipping as quickly as possible. Early orders are suggested, as we ship in same order that we receive orders, and demand for nursery equipment is great because of the rapid expansion of the nursery business.

SPECIFICATIONS

Equipped with Jumbo Balloon Tires and Tubes, 12x4 inches.
Specially Designed Curved Nose.
All-steel Construction, electrically welded.
Weight 58 pounds.
Over-all Length 63 inches.
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Capacity 28-in. Ball weighing 600 pounds.



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A ROPER

Planting and transplanting time is cut way down when you use a Roper high-speed hole digger. Installed easily by one man in a few minutes. Safe, fast and efficient in all soil types. Adjustable so that holes may be dug straight down even on rolling land. Priced reasonably direct from manufacturer.



Up to
24-in. Diam.
and
30 ins. Deep

Buy Direct

ONLY \$125.00

with 12-in. blade.

\$132.50 with 24-in. blade.
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(Available to fit Ford Tractors with Ferguson System only until further notice.)

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TWO-WEEK DELIVERY!

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ROPER MANUFACTURING CO., WALNUT DR., ZANESVILLE, OHIO

FULLER WHEEL HOE MULCHES, WEEDS, CULTIVATES

\$725

Costs less.
Weighs less.
Lasts longer.
Does more work.
Best by 40 years' test. Dealer inquiries invited.

**FULLER
WHEEL HOE CO.**
So. Hamilton, Mass.

Light yet efficient. For close work in rows. Adjusts to operator's height. 6-ft. ash handle; standard 9 1/2-in. bushed wheel; tool steel blades 6 to 14 ins. wide. Wght., 10 lbs.



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For Nurserymen

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CO.**

Ray and Kiser Sts. DAYTON, O.

HIGH SIGN

HUDSON

TO PROFITS

Tested and Proved
SPRAYERS AND DUSTERS

THE SIGN OF CONSUMER ACCEPTANCE

Every dealer knows that offering products with widespread consumer acceptance is the key to steady, volume sales. In sprayers and dusters, HUDSON is the *accepted* brand. The "HUDSON Diamond-H" is the familiar, trusted trade-mark. For over 40 years, it has stood for outstanding value—for sound design and construction—for perfection of application and all the other good qualities users want in sprayers and dusters. Sell HUDSON and sell the *accepted* line.

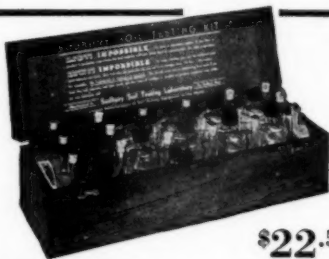
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Own a SOIL TEST LABORATORY Of Your Own



\$22.50

express paid

SUDBURY PORTABLE SOIL TEST LABORATORY

The most valuable piece of equipment you can own, giving you the soil information that you need for efficient production. Widely used by estates, professional growers and government field stations. Will last almost a lifetime with refills. Comes in instrument type chest. No chemistry knowledge required. Complete with instructions and helpful chart. **SEND NO MONEY.** Order C.O.D. \$22.50, plus express charges (or send \$22.50 and we pay express). Money back guaranteed. Immediate delivery.

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THE MOST COMPLETE
 LINE OF TILLAGE EQUIP-
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 CAPACITIES 14 IN. TO 7
 FT. CUTTING WIDTHS.

ARIENS CO.
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PEAT PRODUCTS

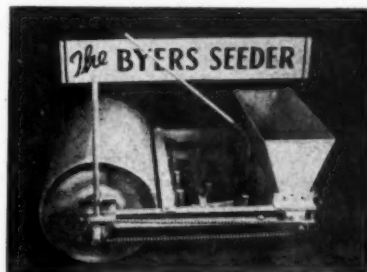
Sphagnum Peat Moss acid pH 4.0
 Hypnum Peat Moss neutral 6.5 to 7.0
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We can furnish you quality peats for YOUR needs. . . . For general soil conditioning, planting, propagating, packing, mulching, top dressing and bulb storage.

BUY CHEAPER, BUY IN BULK CAR LOTS. SOLD BY THE CUBIC YARD. Write or wire for quotations.

ELI COLBY CO.

HANLONTOWN, IOWA



This machine seeds, rakes and rolls in one operation.

It will sow grass seed, commercial fertilizer, limestone, or any granular material that can be broadcast on the surface of the ground and raked in.

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BOOKS

for Nurserymen

Book A. Illustrates in full color 235 standard nursery items, brief description, substantially bound. Price in small lots, **75c** each.

Descriptive Nursery Catalog

Nicely illustrated, 48 pages and cover. **20c** each in small lots.

Correct Planting Methods

A pocket-size 48-page booklet. Very complete but concise information, well illustrated. Helpful in preventing claims for dead stock that cost nurserymen money. Sample, **10c**. Write for discounts on quantities.

Will send sample copy of each of the above on receipt of **\$1.00**. Cash with order.

Made to Order

Catalogs, Folders, etc., with illustrations in full color or one color. Thousands of engravings available. Send your specifications or samples for estimate and suggestions.

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IT COSTS NO MORE

(and in most instances less)

FOR OUR PACKING OF

Nursery Burlap Squares and Rolls

Write for prices and samples.

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P. O. Box 167 Rochester, N. Y.

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**BENJAMIN CHASE
COMPANY**
DERRY, N. H.

BAMBOO CANES RAFFIA — BULBS

McHUTCHISON & CO.
92 Chambers St. New York 7, N. Y.

CATALOGS RECEIVED.

Sheridan Nurseries, Ltd., Toronto, Ont., Canada—Catalog of general nursery stock, quantity prices given; illustrated, 24 pages, 6 $\frac{3}{4}$ x10 $\frac{3}{4}$ inches.

Mount Arbor Nurseries, Shenandoah, Ia.—Wholesale price list of general nursery stock; 48 pages, 6x9 inches.

Weller Nurseries Co., Inc., Holland, Mich.—Trade list of herbaceous perennials, rock and alpine plants; 16 pages, 6x9 inches.

Wonderland Nurseries, Ellerson, Va.—Rooted chrysanthemum cuttings, priced per 100; 32 pages and covers, 6x9 inches.

Willis Nursery Co., Ottawa, Kan.—Wholesale price list of general nursery stock; 20 pages and covers, 5 $\frac{3}{4}$ x8 $\frac{3}{4}$ inches.

Charles Fiore Nurseries, Prairie View, Ill.—Wholesale price list of general nursery stock; 32 pages and covers, 4x9 inches.

The Berryhill Nursery Co., Springfield, O.—Wholesale price list of general nursery stock, 12 pages and covers, 4 $\frac{1}{4}$ x8 $\frac{1}{2}$ inches.

W. T. Smith Corp., Geneva, N. Y.—16-page wholesale price list of general nursery stock; 4x9 inches.

Tuttle Bros. Nurseries, Pasadena, Cal.—2-page mimeographed wholesale price list of fruit trees; 8 $\frac{1}{2}$ x14 inches.

Stratford Gardens, Delaware, O.—Wholesale price list of gypsophila, delphinium and chrysanthemums; 4-page folder, 3 $\frac{1}{2}$ x8 $\frac{3}{4}$ inches.

I. W. Scott Co., Pittsburgh, Pa.—Catalog of flower and vegetable seeds and supplies; illustrated, 92 pages and covers, 8x10 inches.

Conard-Pyle Co., West Grove, Pa.—Retail catalog of roses, chrysanthemums and other flowers; 32 pages, illustrated, 6 $\frac{3}{4}$ x10 inches.

The Home Nursery, Lafayette, Ill.—Retail catalog of general nursery stock; illustrated, 24 pages and covers, 6 $\frac{1}{2}$ x10 inches.

The Daniels Nursery, Long Lake, Minn.—Retail price list of general nursery stock; 32 pages and covers, 6x9 inches.

Eastern Shore Nurseries, Inc., Easton, Md.—Retail price list of general nursery stock; 24 pages and covers, 4x9 inches.

Corliss Bros., Inc., Gloucester, Mass.—Retail price list of general nursery stock; illustrated, 64 pages and covers, 4x9 inches.

Hillenmeyer Nurseries, Lexington, Ky.—Retail catalog of fruit trees, small fruits and roses; illustrated in color, 8-page folder, 9 $\frac{1}{2}$ x12 $\frac{1}{2}$ inches.

FORMERLY with the state department of agriculture, H. T. Rainwater has opened Pacific Nurseries at Fontana, Cal. Special insect control services will be offered.

A BILL appropriating \$45,915 for establishing a forest tree nursery at the State College of Washington, Pullman, was recently passed by the state legislature and signed by the governor.

ANTON RESNER has opened the Juniper Nursery at 130 South Juniper, Fontana, Cal. In addition to a complete line of nursery stock and seeds, fertilizers and sprays will be featured.

For Over 5 Years Our OPEN MESH COTTON NURSERY SQUARES

have rendered
complete satisfaction
to the
LEADING NURSERYMEN
throughout the
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Why not try them?

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NEW 9-OUNCE
BURLAP SHEETS
Size 31x34 ins.

Now Selling for IMMEDIATE
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Furnished upon Request.

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100% Natural Rubber

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Burlap and Cotton
NURSERY SQUARES
all sizes.

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GET IN THE PROFIT PICTURE

WITH

CLOVERSET POTS

*PATENT NO. 2073695

THEY ARE RIGHT IN LINE FOR YOUR STREAMLINED OPERATIONS

(STANDARD HEAVY)

	No. 0	No. 1	No. 2	No. 3
Height	5½ ins.	6½ ins.	9½ ins.	9 ins.
Diam. Top	5 ins.	6 ins.	7 ins.	8 ins.
Bottom Diam.	4½ ins.	5½ ins.	6½ ins.	7½ ins.
Corresponding Clay Pot	6-in.	7-in.	8-in.	9-in.
Approx. Weight Per 100	35 lbs.	52 lbs.	78 lbs.	88 lbs.
Per 100	\$2.75	\$4.00	\$4.50	\$5.00
Per 1000	\$25.00	\$37.50	\$42.50	\$47.50

Orders for 300 or more pots, any size, take the 1000-pot rate.

We recommend: No. 0 for perennials and use in the greenhouse; No. 1 for perennials and mums; No. 2 for roses and shrubs; No. 3 for large shrubs and transplanting.

F.O.B. KANSAS CITY. TERMS: CASH WITH ORDER (EXCEPT ESTABLISHED ACCOUNTS). Prices subject to Change WITHOUT Notice. Please send ¼ of amount with C.O.D. orders.

IF YOU DESIGNATE EXPRESS, we advise you to check the cost with your local express agent. Unless otherwise instructed, we will determine method of shipment.

Cloverset Pots take 3rd class freight rate. All Cloverset Pots are packed 100 in carton, ready for use. We do not break cartons.

CLOVERSET FLOWER FARM

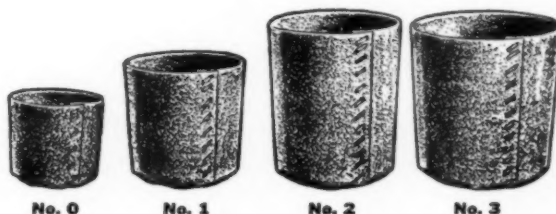
ERNEST HAYSLE & SON

105th Street and Broadway, Kansas City 5, Mo.

● Attractive appearance, ease in handling make them ideal for the serve-yourself merchandising customers prefer.

● There is no loss from breakage, although Cloverset Pots are lightweight—weighing only 1/16 as much as clay pot of same capacity.

● Pots are so low-priced that they may be given away—minimizing time lost in serving customer and creating customer good will.



In keeping with the profit-building trend to modernized nursery methods, progressive nurserymen have found that plants set in Cloverset Pots make handsome displays; and sell easily at a higher price, if desired.

Made from tough, asphalt-impregnated felt, Cloverset Pots are nonporous—requiring half as much watering. Plants may be quickly removed for planting by tearing or cutting pot; and your customer will find that plants are seldom lost when started and potted in a Cloverset Pot with double soil capacity.

**ORDER EARLY
FREIGHT SHIPMENTS ARE SLOW.**

STEP UP YOUR TURNOVER

Supply yourself today with the Evergreens necessary to take care of the demand two years from now. You will save 3 to 5 years making your selection from this list of Twice-transplanted, Balled and Burlapped Evergreens.

Your profit is insured with these quick turnover items.

	Per 10	Per 100
JUNIPERUS COM. DEPRESSA, VASE-SHAPED (Vase-shaped Pros. Juniper) 15 to 18 inches, xx, B&B.....	\$13.50	\$125.00
JUNIPERUS HORIZONTALIS PLUMOSA (Andorra Juniper) 12 to 15 inches, xx, B&B.....	13.00	120.00
PICEA GLAUCA DENSATA (Black Hills Spruce) 18 to 24 inches, xx, B&B.....	16.00	150.00
PINUS MUGHUS (Mugho Pine) 8x8 inches, xx, B&B.....	9.00	80.00
10x10 inches, xx, B&B.....	12.50	100.00
PINUS SYLVESTRIS (Scotch Pine) 2 to 3 feet, xx, B&B.....	16.00	150.00
PSEUDOTSUGA DOUGLASI (Douglas Fir) 18 to 24 inches, xx, B&B.....	13.50	125.00
2 to 2½ feet, xx, B&B.....	16.00	150.00
TAXUS CUSPIDATA (Spreading Japanese Yew) 12 to 15 inches, xx, B&B.....	15.50	145.00
TAXUS CUSPIDATA BROWNI (Brown's Yew) 10 to 12 inches, xx, B&B.....	15.50	145.00
TAXUS CUSPIDATA INTERMEDIA (Intermedia Yew) 10 to 12 inches, xx, B&B.....	16.50	155.00
TSUGA CANADENSIS (Canada Hemlock) 15 to 18 inches, xx, B&B.....	13.50	125.00
18 to 24 inches, xx, B&B.....	16.00	150.00
2 to 2½ feet, xx, B&B.....	19.00	180.00

5 of same variety and size at 10 rate; 25 at 100 rate.

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DUNDEE, ILLINOIS